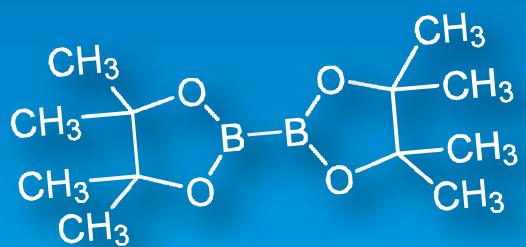
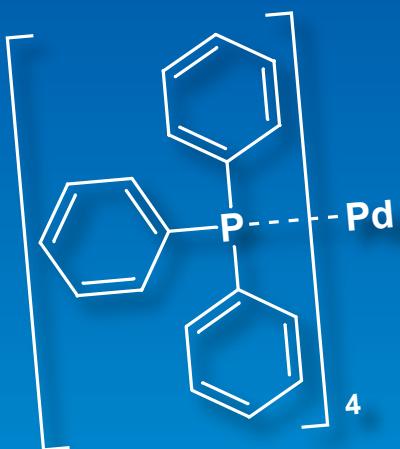
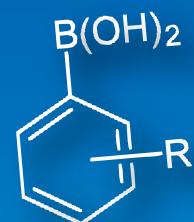


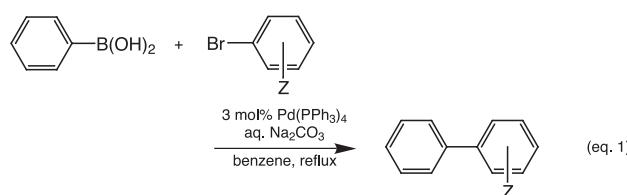
Suzuki-Miyaura Cross Coupling Reaction



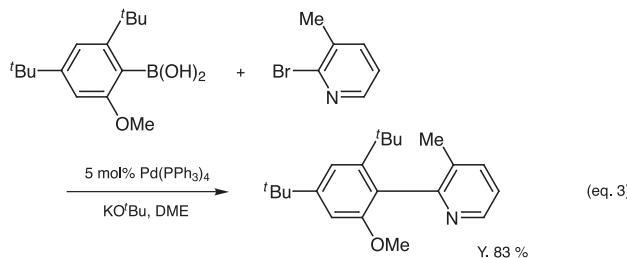
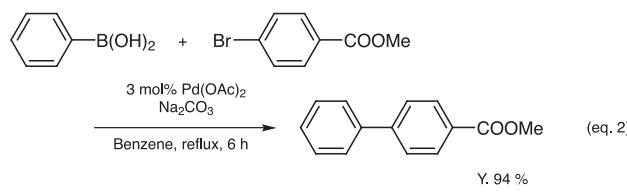
Suzuki-Miyaura Cross Coupling Reaction

Biaryl compounds are utilized as important basic skeletons of functional materials such as liquid crystals and biologically active compounds. For example, the biphenyl skeleton of diflunisal demonstrates analgesic and anti-inflammatory effects, and 4-alkyl-4'-cyanobiphenyl is a liquid crystal material. Traditionally, the Ullmann reaction and the Gomberg-Bachmann-Hey reaction have been used for biaryl formation. However, the reaction selectivities and yields of the anticipated products were poor.

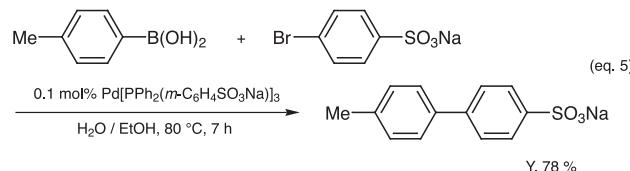
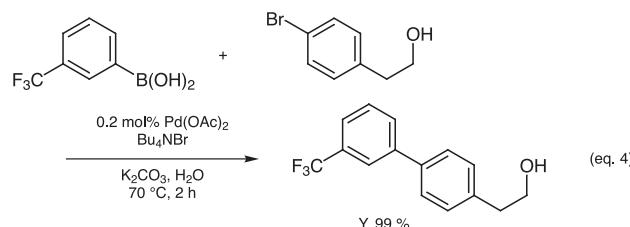
In 1981, Suzuki and Miyaura *et al.* made a breakthrough in the methodology of biaryl compound synthesis by using aryl boronic acids and aryl bromide under homogeneous palladium catalyzed conditions in the presence of bases (eq. 1).¹⁾



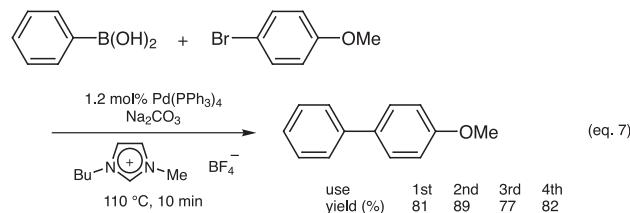
Under mild conditions, these reactions produce biaryl compounds with high selectivities and excellent yields. Moreover, there are few limitations in terms of functional group requirements, thus making it possible for the synthesis of biaryls with diverse components such as hydroxy, carboxyl and formyl groups, etc. (eq. 2). Furthermore, it is possible to synthesize sterically-hindered pyridylphenol derivatives (eq. 3).²⁾ This useful reaction, the "Suzuki-Miyaura Cross Coupling Reaction" is named after its inventors, and it is an extremely useful reaction, although many improvements have been made since its discovery.



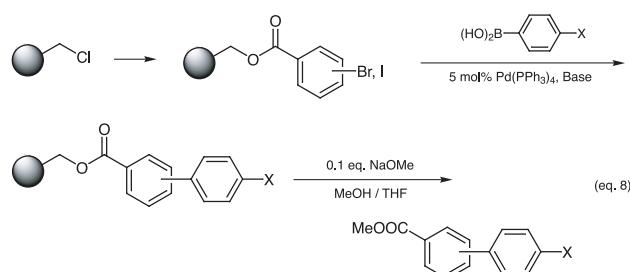
In recent years, many modifications in the "Suzuki-Miyaura Cross Coupling Reaction", such as using water as the solvent, have been made from Green Chemistry's viewpoint. For example, ArB(OH)₃-Bu₄N⁺, generated when tetrabutyl-ammonium bromide and aryl boronic acid react in water, accelerates the cross-coupling reaction (eq. 4).³⁾ The cross-coupling reactions using the water-soluble Pd(0) catalyst have also been reported (eq. 5).⁴⁾



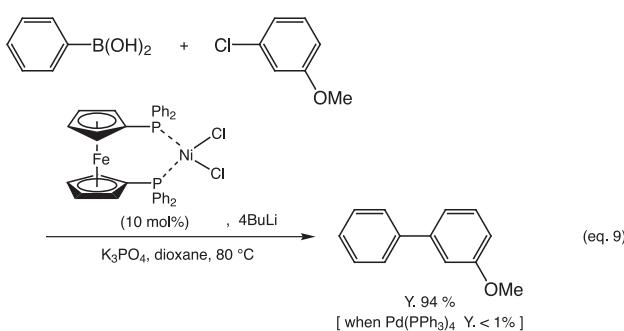
Experimental trials using ionic liquids as solvents have also been reported. According to reports, the products are easily extracted using organic solvents after the reaction, and the catalysts are held in ionic liquids. These ionic liquids and catalysts can be reused (eq. 7).⁵⁾



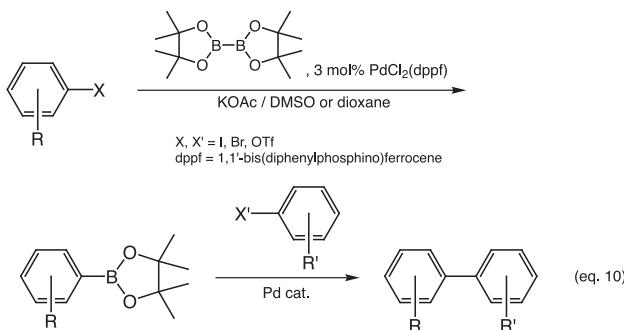
Since the first report of the Suzuki-Miyaura Cross Coupling Reaction, these have been many applications toward solid phase synthesis⁶⁾ and other various syntheses. Aryl iodides and aryl bromides bound to Merrifield resin react with many different types of aryl boronic acids, and they produce biaryls in high yields (eq. 8).



The reactivities of aryl halides and aryl triflates are indicated as follows; Ar-I > Ar-Br > Ar-OTf >> Ar-Cl. The oxidative addition of aryl chloride upon Pd is too slow. Therefore, in most cases it has been shown that the reaction itself does not proceed to completion, except in cases where aryls are heterocycles or possess electron-withdrawing groups. There have been some reports that biaryls can be produced in high yields from aryl chloride and aryl boronic acid when Ni catalyst is used instead of Pd catalyst (eq. 9).⁷⁾



Aryl boronic acids are typically produced by making alkyl borate react with either Grignard or organolithium reagents. However, these methods have a few drawbacks, they require low temperature conditions, and the yields of aryl boronic acids may decrease depending upon the substituent. Miyaura et al. reported that aryl boronate that is produced from diboron esters and aryl halides or aryl triflates can be used for the Suzuki-Miyaura Cross Coupling Reaction (eq. 10).⁸⁾ Thus, aryl boronate is a useful compound that can be utilized directly in the Cross Coupling Reaction.



In conclusion, the Suzuki-Miyaura Cross Coupling Reaction is not only one of the most powerful methods used in the formation of C-C bonds, but it is also an extremely useful procedure in the construction of the carbon skeletons of many biologically important compounds.

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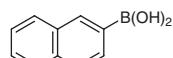
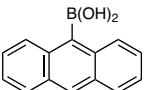
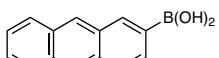
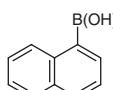
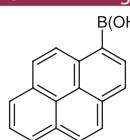
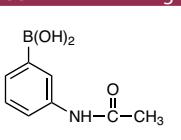
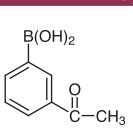
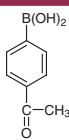
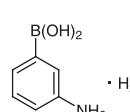
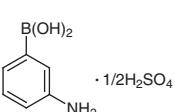
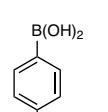
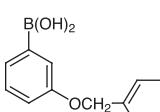
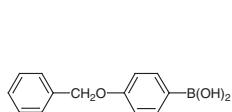
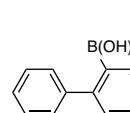
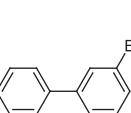
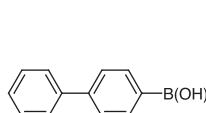
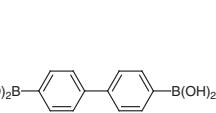
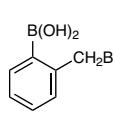
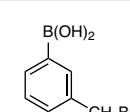
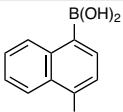
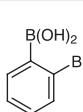
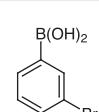
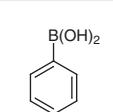
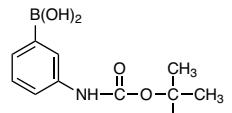
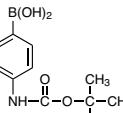
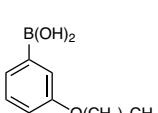
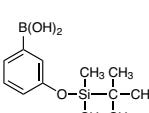
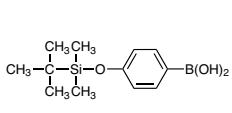
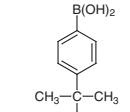
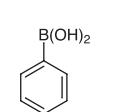
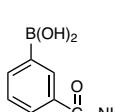
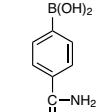
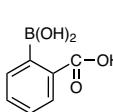
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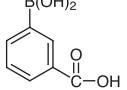
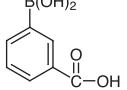
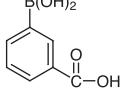
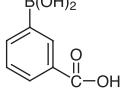
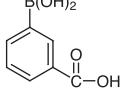
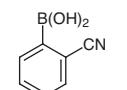
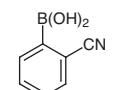
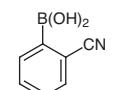
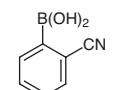
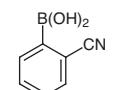
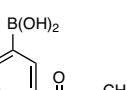
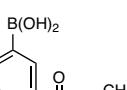
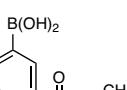
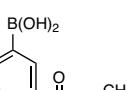
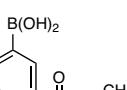
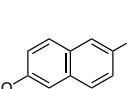
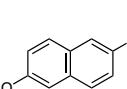
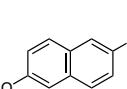
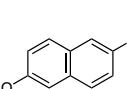
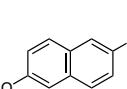
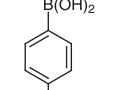
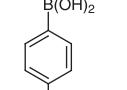
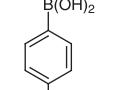
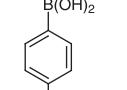
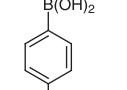
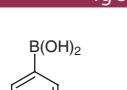
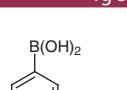
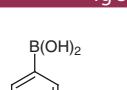
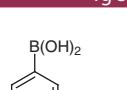
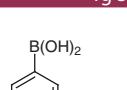
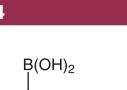
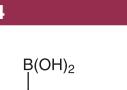
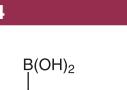
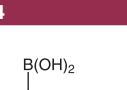
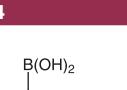
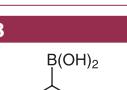
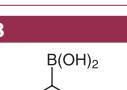
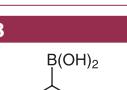
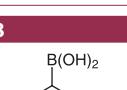
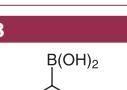
Boronic Acids	5	Palladium Catalysts	21
Aryl Boronic Acids (Unsubstituted)			
Aryl Boronic Acids (Monosubstituted)			
Aryl Boronic Acids (Disubstituted)		Nickel Catalysts	23
Aryl Boronic Acids (Trisubstituted)			
Aryl Boronic Acids (Pentasubstituted)			
Heteroaryl Boronic Acids		Phosphine Ligands	23
Alkenyl Boronic Acids			
Alkyl Boronic Acids			
Boronate Esters	15	N-Heterocyclic Carbene Ligands	25
Protected Boronic Acids	20	Bases, Additive Agents	26
Trifluoroborate Salts	20	Metal Scavengers	26
Diboronic Acid / Diboronic Acid Esters	21		

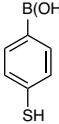
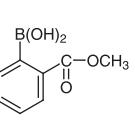
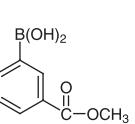
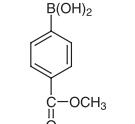
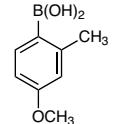
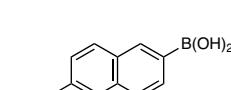
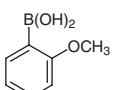
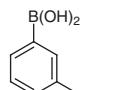
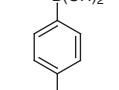
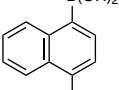
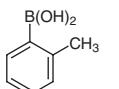
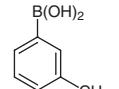
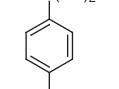
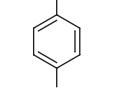
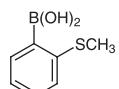
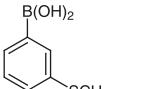
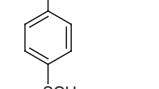
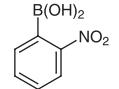
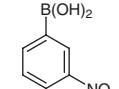
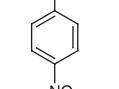
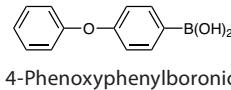
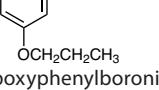
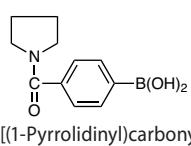
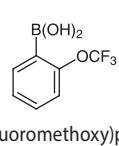
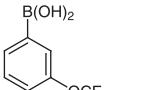
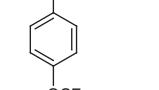
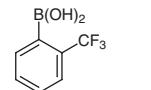
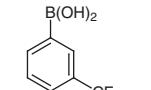
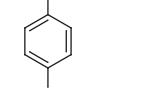
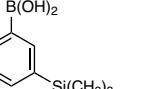
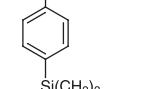
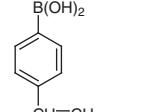
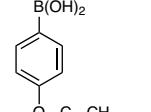
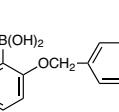
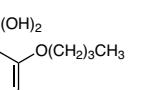
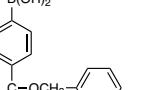
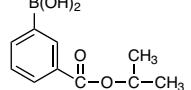
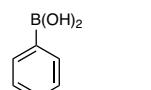
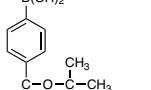
Boronic Acids

Aryl Boronic Acids (Unsubstituted)

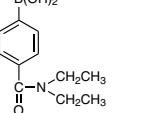
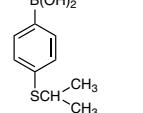
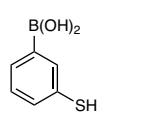
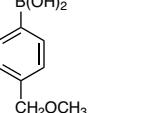
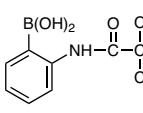
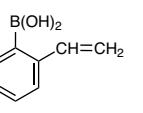
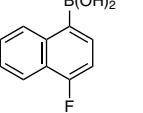
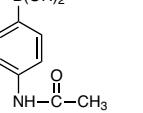
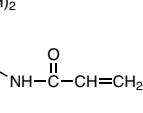
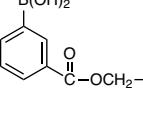
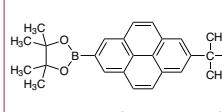
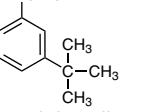
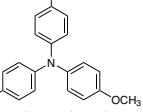
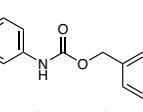
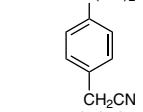
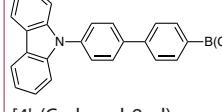
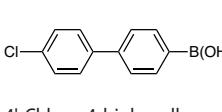
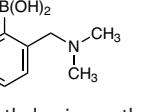
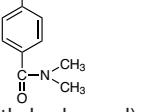
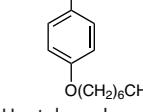
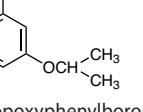
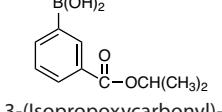
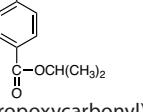
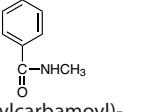
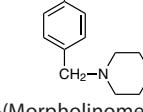
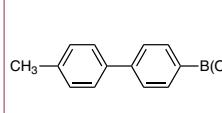
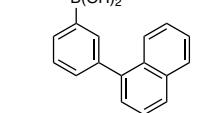
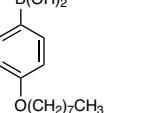
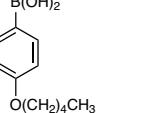
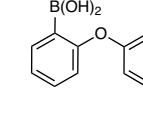
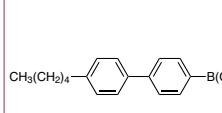
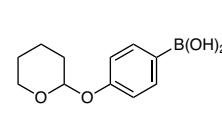
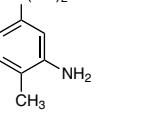
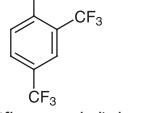
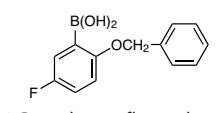
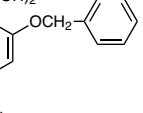
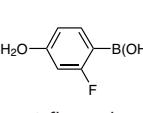
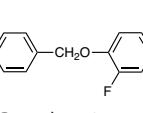
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CAS RN: 141981-64-8**B0857** 5g 25g 250gPhenylboronic Acid
CAS RN: 98-80-6**N0630** 1g 5g 25g1-Naphthaleneboronic Acid
CAS RN: 13922-41-3**P1625** 1g 5g 25g1-Pyreneboronic Acid
CAS RN: 164461-18-1**A2453** 1g 5g3-Acetamidophenylboronic Acid
CAS RN: 78887-39-5**A1942** 5g 25g3-Acetylphenylboronic Acid
CAS RN: 204841-19-0**A1907** 1g 5g4-Acetylphenylboronic Acid
CAS RN: 149104-90-5**A1281** 1g 5g 25g3-Aminophenylboronic Acid Monohydrate
CAS RN: 206658-89-1**A1774** 1g 5g 25g3-Aminophenylboronic Acid Hemisulfate
CAS RN: 66472-86-4**A2336** 5g4-Amylphenylboronic Acid
CAS RN: 121219-12-3**B3056** 5g 25g3-Benzylxophenylboronic Acid
CAS RN: 156682-54-1**B2145** 1g 5g4-Benzylxophenylboronic Acid
CAS RN: 146631-00-7**B2488** 5g 25g2-Biphenylboronic Acid
CAS RN: 4688-76-0**B2489** 5g 25g3-Biphenylboronic Acid
CAS RN: 5122-95-2**B2294** 5g 25g4-Biphenylboronic Acid
CAS RN: 5122-94-1**B2490** 1g 5g4,4'-Biphenyldiboronic Acid
CAS RN: 4151-80-8**B3600** 1g2-(Bromomethyl)phenylboronic Acid
CAS RN: 91983-14-1**B3814** 1g 5g3-(Bromomethyl)phenylboronic Acid
CAS RN: 51323-43-4**B4463** 1g4-Bromo-1-naphthaleneboronic Acid
CAS RN: 145965-14-6**B2889** 5g2-Bromophenylboronic Acid
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CAS RN: 5467-74-3**B4279** 1g 5g3-[(tert-Butoxycarbonyl)-amino]phenylboronic Acid
CAS RN: 380430-68-2**B4335** 1g 5g4-[(tert-Butoxycarbonyl)-amino]phenylboronic Acid
CAS RN: 380430-49-9**B4640** 1g 5g3-Butoxyphenylboronic Acid
CAS RN: 352534-81-7**B3726** 1g 5g3-(tert-Butyldimethylsilyloxy)phenylboronic Acid
CAS RN: 261621-12-9**B3739** 1g 5g4-(tert-Butyldimethylsilyloxy)phenylboronic Acid
CAS RN: 159191-56-7**B2251** 5g 25g4-tert-Butylphenylboronic Acid
CAS RN: 123324-71-0**B2589** 1g 5g4-Butylphenylboronic Acid
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CAS RN: 351422-73-6**C2570** 1g 5g4-Carbamoylphenylboronic Acid
CAS RN: 123088-59-5**C2501** 1g 5g2-Carboxyphenylboronic Acid
CAS RN: 149105-19-1

Suzuki-Miyaura Cross Coupling Reaction

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D4194  3-(Dimethylcarbamoyl)phenylboronic Acid CAS RN: 373384-14-6	D3537  4-(Diphenylamino)phenylboronic Acid CAS RN: 201802-67-7	E0877  2-(Ethoxycarbonyl)phenylboronic Acid CAS RN: 380430-53-5	E0848  3-(Ethoxycarbonyl)phenylboronic Acid CAS RN: 4334-87-6	E0868  4-(Ethoxycarbonyl)phenylboronic Acid CAS RN: 4334-88-7
E1107  6-Ethoxy-2-naphthaleneboronic Acid CAS RN: 352525-98-5	E0723  2-Ethoxyphenylboronic Acid CAS RN: 213211-69-9	E0724  3-Ethoxyphenylboronic Acid CAS RN: 90555-66-1	E0725  4-Ethoxyphenylboronic Acid CAS RN: 22237-13-4	E0818  2-Ethylphenylboronic Acid CAS RN: 90002-36-1
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H1244  3-(Hydroxymethyl)phenylboronic Acid CAS RN: 87199-15-3	H1204  4-(Hydroxymethyl)phenylboronic Acid CAS RN: 59016-93-2	H1402  6-Hydroxy-2-naphthaleneboronic Acid CAS RN: 173194-95-1	H1184  2-Hydroxyphenylboronic Acid CAS RN: 89466-08-0	H1185  3-Hydroxyphenylboronic Acid CAS RN: 87199-18-6
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M2418  4-Mercaptophenylboronic Acid CAS RN: 237429-33-3	M1905  2-(Methoxycarbonyl)phenylboronic Acid CAS RN: 374538-03-1	M1906  3-(Methoxycarbonyl)phenylboronic Acid CAS RN: 99769-19-4	M1907  4-(Methoxycarbonyl)phenylboronic Acid CAS RN: 99768-12-4	M2255  4-Methoxy-2-methylphenylboronic Acid CAS RN: 208399-66-0
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Suzuki-Miyaura Cross Coupling Reaction

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V0140 1g 5g  2-Vinylphenylboronic Acid CAS RN: 15016-42-9	F1080 200mg 1g  4-Fluoro-1-naphthaleneboronic Acid CAS RN: 182344-25-8	A3140 1g  4-Acetamidophenylboronic Acid CAS RN: 101251-09-6	A3199 1g 5g  3-Acrylamidophenylboronic Acid CAS RN: 99349-68-5	B5172 1g  3-Carbobenzoxybenzeneboronic Acid CAS RN: 380430-52-4
B5489 1g 5g  [7-(tert-Butyl)pyren-2-yl]boronic Acid Pinacol Ester CAS RN: 1270030-08-4	B6001 1g 5g  3-tert-Butylphenylboronic Acid CAS RN: 560132-24-3	B6005 1g  [4-[Bis(4-methoxyphenyl)amino]phenyl]boronic Acid CAS RN: 201802-29-1	B6070 1g  4-(Cbz-amino)benzeneboronic Acid CAS RN: 192804-36-7	C3231 1g 5g  4-(Cyanomethyl)phenylboronic Acid CAS RN: 91983-26-5
C3353 200mg 1g  [4'-(Carbazol-9-yl)-4-biphenyl]boronic Acid CAS RN: 858131-73-4	C3614 1g 5g  4'-Chloro-4-biphenylboronic Acid CAS RN: 364044-44-0	D5165 1g  2-(Dimethylaminomethyl)phenylboronic Acid CAS RN: 85107-53-5	D5226 1g 5g  4-(Dimethylcarbamoyl)phenylboronic Acid CAS RN: 405520-68-5	H1566 1g 5g  4-Heptyloxyphenylboronic Acid CAS RN: 136370-19-9
I0984 1g 5g  3-Isopropoxyphenylboronic Acid CAS RN: 216485-86-8	I1000 1g  3-(Isopropoxycarbonyl)phenylboronic Acid CAS RN: 342002-80-6	I1001 1g  4-(Isopropoxycarbonyl)phenylboronic Acid CAS RN: 342002-82-8	M3056 1g 5g  4-(Methylcarbamoyl)phenylboronic Acid CAS RN: 121177-82-0	M3128 1g 5g  4-(Morpholinomethyl)phenylboronic Acid CAS RN: 279262-23-6
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P2717 1g 5g  4'-Pentyl-4-biphenylboronic Acid CAS RN: 121554-18-5	T3325 5g 25g  4-(Tetrahydro-2H-pyran-2-yloxy)phenylboronic Acid CAS RN: 182281-01-2	Aryl Boronic Acids (Disubstituted)		A2745 1g 5g  3-Amino-4-methylphenylboronic Acid CAS RN: 22237-12-3
B3022 1g 5g  2,4-Bis(trifluoromethyl)phenylboronic Acid CAS RN: 153254-09-2	B3683 1g 5g  2-Benzylxylo-5-fluorophenylboronic Acid CAS RN: 779331-47-4	B3779 1g 5g  2-Benzylxylo-4-fluorophenylboronic Acid CAS RN: 848779-87-3	B4638 200mg 1g  4-Benzylxylo-2-fluorophenylboronic Acid CAS RN: 166744-78-1	B1886 1g 5g 25g  3,5-Bis(trifluoromethyl)phenylboronic Acid CAS RN: 73852-19-4
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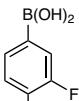
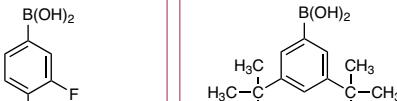
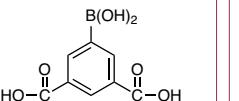
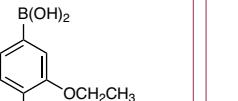
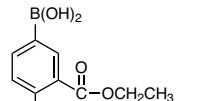
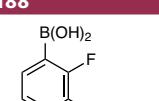
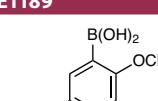
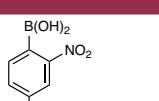
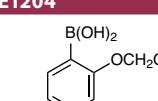
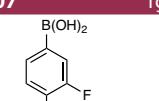
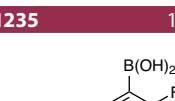
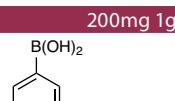
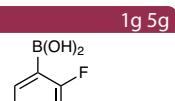
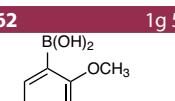
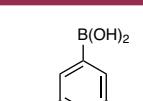
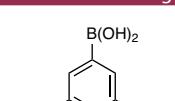
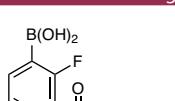
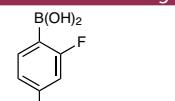
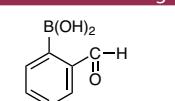
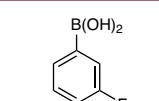
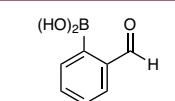
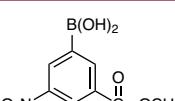
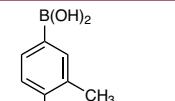
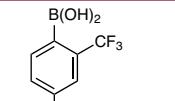
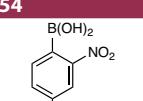
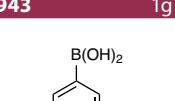
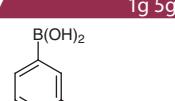
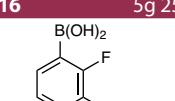
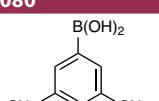
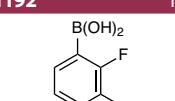
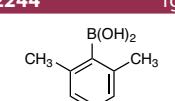
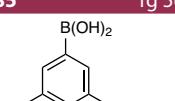
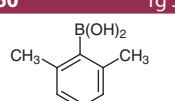
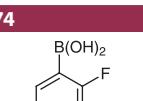
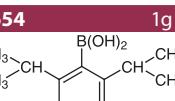
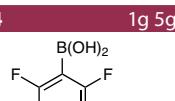
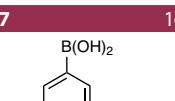
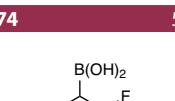
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C2456 4-Cyano-3-fluorophenylboronic Acid CAS RN: 843663-18-3	1g 5g	C2523 4-Carboxy-3-chlorophenylboronic Acid CAS RN: 136496-72-5	1g 5g	C2525 3-Chloro-4-methylphenylboronic Acid CAS RN: 175883-63-3	1g 5g	C2571 4-Chloro-3-(trifluoromethyl)phenylboronic Acid CAS RN: 176976-42-4	1g 5g	C2577 4-Chloro-2-methylphenylboronic Acid CAS RN: 209919-30-2	1g 5g
C2591 2-Chloro-5-(trifluoromethyl)phenylboronic Acid CAS RN: 182344-18-9	1g 5g	C2601 4-Chloro-2-(trifluoromethyl)phenylboronic Acid CAS RN: 313545-41-4	1g 5g	C2645 5-Chloro-2-fluorophenylboronic Acid CAS RN: 352535-83-2	5g	C2664 3-Chloro-4-ethoxyphenylboronic Acid CAS RN: 279261-81-3	1g 5g	C2665 5-Chloro-2-methylphenylboronic Acid CAS RN: 148839-33-2	1g 5g
C2676 3-Cyano-4-fluorophenylboronic Acid CAS RN: 214210-21-6	1g	C2749 4-Chloro-3-fluorophenylboronic Acid CAS RN: 137504-86-0	1g 5g	C2772 2-Chloro-4-fluorophenylboronic Acid CAS RN: 313545-72-1	5g 25g	C2914 3-Chloro-5-fluorophenylboronic Acid CAS RN: 328956-61-2	1g 5g	C2945 3-Carboxy-4-fluorophenylboronic Acid CAS RN: 872460-12-3	1g 5g
C2946 3-Chloro-2-fluorophenylboronic Acid CAS RN: 352535-82-1	1g 5g	C2969 3-Chloro-4-hydroxyphenylboronic Acid CAS RN: 182344-13-4	1g 5g	C3048 4-Chloro-2-fluorophenylboronic Acid CAS RN: 160591-91-3	1g 5g	C3049 2-Chloro-4-methylphenylboronic Acid CAS RN: 145349-62-8	1g 5g	C3056 3-Chloro-4-methoxyphenylboronic Acid CAS RN: 175883-60-0	1g 5g
C3071 4-Chloro-3-methylphenylboronic Acid CAS RN: 161950-10-3	1g 5g	C3213 2-Chloro-3-(trifluoromethyl)phenylboronic Acid CAS RN: 957061-11-9	200mg 1g	C3220 4-Carboxy-2-fluorophenylboronic Acid CAS RN: 851335-07-4	1g 5g	C3224 2-Chloro-4-(methoxycarbonyl)phenylboronic Acid CAS RN: 603122-80-1	1g 5g	C3248 4-Chloro-2-methoxyphenylboronic Acid CAS RN: 762287-57-0	200mg 1g
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Suzuki-Miyaura Cross Coupling Reaction

D3357 2,6-Dichlorophenylboronic Acid CAS RN: 73852-17-2	D3391 2,4-Difluorophenylboronic Acid CAS RN: 144025-03-6	D3396 3,5-Dimethylphenylboronic Acid CAS RN: 172975-69-8	D3434 2,3-Dichlorophenylboronic Acid CAS RN: 151169-74-3	D3436 2,5-Difluorophenylboronic Acid CAS RN: 193353-34-3
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D3521 2,4-Dimethoxyphenylboronic Acid CAS RN: 133730-34-4	D3522 2,5-Dimethoxyphenylboronic Acid CAS RN: 107099-99-0	D3523 2,3-Difluorophenylboronic Acid CAS RN: 121219-16-7	D3633 2,6-Dimethylphenylboronic Acid CAS RN: 100379-00-8	D3783 3,4-Dichlorophenylboronic Acid CAS RN: 151169-75-4
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E1173 4-Ethoxy-2-methylphenylboronic Acid CAS RN: 313545-31-2	E1205 3-Ethoxy-5-fluorophenylboronic Acid CAS RN: 850589-53-6	F0666 4-Fluoro-2-methylphenylboronic Acid CAS RN: 139911-29-8	F0683 2-Fluoro-4-methylphenylboronic Acid CAS RN: 170981-26-7	F0697 4-Fluoro-3-methylphenylboronic Acid CAS RN: 139911-27-6
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F0830 4-Fluoro-3-(trifluoromethyl)phenylboronic Acid CAS RN: 182344-23-6	F0834 5-Formyl-2-methoxyphenylboronic Acid CAS RN: 127972-02-5	F0876 3-Fluoro-4-methoxyphenylboronic Acid CAS RN: 149507-26-6	F0915 2-Fluoro-5-methylphenylboronic Acid CAS RN: 166328-16-1	F0919 4-Fluoro-3-methoxyphenylboronic Acid CAS RN: 854778-31-7
F0940 2-Fluoro-3-methoxyphenylboronic Acid CAS RN: 352303-67-4	F0941 2-Fluoro-6-methoxyphenylboronic Acid CAS RN: 78495-63-3	F0942 3-Fluoro-4'-propyl-4-biphenylboronic Acid CAS RN: 909709-42-8	F0954 3-Fluoro-5-hydroxyphenylboronic Acid CAS RN: 871329-82-7	F0955 3-Fluoro-2-methylphenylboronic Acid CAS RN: 163517-61-1

F0976 5-Fluoro-2-methylphenylboronic Acid CAS RN: 163517-62-2	F0977 5-Fluoro-2-hydroxyphenylboronic Acid CAS RN: 259209-20-6	F1006 2-Fluoro-3-(trifluoromethyl)-phenylboronic Acid CAS RN: 157834-21-4	F1051 3-Fluoro-4-formylphenylboronic Acid CAS RN: 248270-25-9	F1052 4-Fluoro-2-(trifluoromethyl)-phenylboronic Acid CAS RN: 182344-16-7
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B5173 5-Bromo-2-methoxyphenylboronic Acid CAS RN: 89694-45-1	B5257 4-Benzoyloxy-2-formylphenylboronic Acid CAS RN: 139962-97-3	B6032 [3,5-Bis(ethoxycarbonyl)-phenyl]boronic Acid CAS RN: 932378-94-4	C2916 4-Carboxy-2-chlorophenylboronic Acid CAS RN: 851335-09-6	C3210 5-Chloro-2-ethoxyphenylboronic Acid CAS RN: 352534-86-2
C3211 2-Chloro-5-methylphenylboronic Acid CAS RN: 193353-35-4	C3212 4-Chloro-3-nitrophenylboronic Acid CAS RN: 151169-67-4	C3214 3-Cyano-2-fluorophenylboronic Acid CAS RN: 957121-05-0	C3222 2-Chloro-4-ethoxyphenylboronic Acid CAS RN: 313545-44-7	C3223 4-Chloro-2-formylphenylboronic Acid CAS RN: 913835-76-4
C3227 5-Cyano-2-fluorophenylboronic Acid CAS RN: 468718-30-1	C3233 4-Carboxy-3-nitrophenylboronic Acid CAS RN: 80500-28-3	C3246 5-Carboxy-2-chlorophenylboronic Acid CAS RN: 913835-75-3	C3247 2-Chloro-6-fluorophenylboronic Acid CAS RN: 313545-32-3	C3253 4-Chloro-3-methoxyphenylboronic Acid CAS RN: 89694-47-3
C3266 3-Chloro-5-cyanophenylboronic Acid CAS RN: 915763-60-9	C3320 4-Chloro-3-(methoxycarbonyl)-phenylboronic Acid CAS RN: 874219-45-1	C3361 2-Chloro-6-methoxyphenylboronic Acid CAS RN: 385370-80-9	C3432 2-Chloro-5-methoxyphenylboronic Acid CAS RN: 89694-46-2	C3563 (2-Chloro-3-fluorophenyl)boronic Acid CAS RN: 871329-52-1

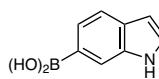
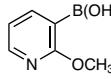
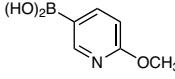
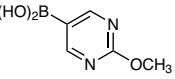
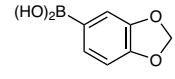
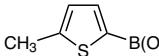
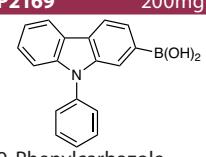
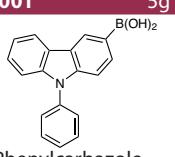
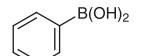
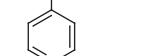
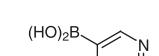
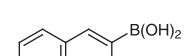
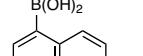
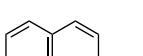
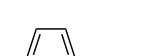
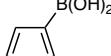
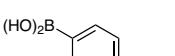
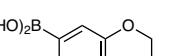
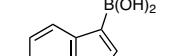
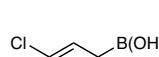
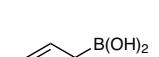
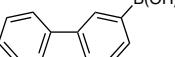
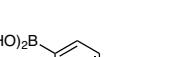
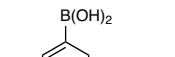
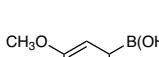
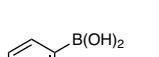
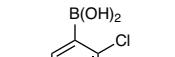
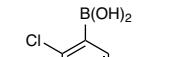
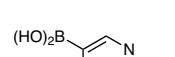
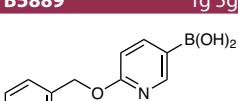
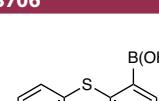
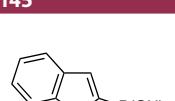
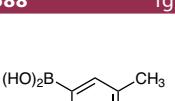
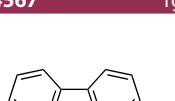
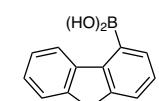
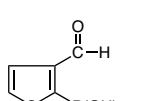
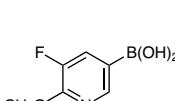
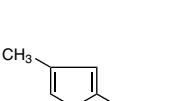
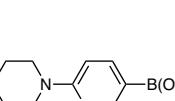
Suzuki-Miyaura Cross Coupling Reaction

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E1188	1g		E1189	1g 5g		E1203	1g		E1204	1g 5g		E1207	1g 5g	
3-Ethoxy-2-fluorophenylboronic Acid CAS RN: 855230-61-4			2-Ethoxy-5-methylphenylboronic Acid CAS RN: 123291-97-4			4-Ethoxycarbonyl-2-nitrophenylboronic Acid CAS RN: 5785-70-6			4-Ethoxycarbonyl-2-nitrophenylboronic Acid CAS RN: 480438-58-2			4-(Ethoxycarbonyl)-3-fluorophenylboronic Acid CAS RN: 874288-38-7		
E1209	200mg 1g		E1235	1g 5g		E1236	200mg 1g		F1048	1g 5g		F1062	1g 5g	
5-(Ethoxycarbonyl)-2-fluorophenylboronic Acid CAS RN: 874219-60-0			5-Ethoxy-2-fluorophenylboronic Acid CAS RN: 900174-60-9			4-Ethoxy-3-(trifluoromethyl)-phenylboronic Acid CAS RN: 871329-83-8			2-Fluoro-4-methoxyphenylboronic Acid CAS RN: 162101-31-7			4-Fluoro-2-methoxyphenylboronic Acid CAS RN: 179899-07-1		
F1064	1g		F1068	1g 5g		F1078	1g		F1079	1g		F1108	1g 5g	
3-Fluoro-5-(trifluoromethyl)-phenylboronic Acid CAS RN: 159020-59-4			3-Fluoro-5-methylphenylboronic Acid CAS RN: 850593-06-5			2-Fluoro-3-formylphenylboronic Acid CAS RN: 849061-98-9			2-Fluoro-4-formylphenylboronic Acid CAS RN: 871126-22-6			2-Formyl-4-methoxyphenylboronic Acid CAS RN: 139962-95-1		
F1132	1g 5g		F1260	1g 5g		M2808	1g 5g		M2809	1g 5g		M2853	1g	
3-Fluoro-4-hydroxyphenylboronic Acid CAS RN: 182344-14-5			4-Fluoro-2-formylphenylboronic Acid CAS RN: 825644-26-6			3-(Methoxycarbonyl)-5-nitrophenylboronic Acid CAS RN: 117342-20-8			4-Methoxy-3-methylphenylboronic Acid CAS RN: 175883-62-2			4-Methoxy-2-(trifluoromethyl)-phenylboronic Acid CAS RN: 313546-16-6		
M2854	1g 5g		M2943	1g 5g		M1127	1g 5g		D5016	5g 25g				
4-(Methoxycarbonyl)-2-nitrophenylboronic Acid CAS RN: 85107-55-7			3-Methoxy-5-(trifluoromethyl)-phenylboronic Acid CAS RN: 871332-97-7			4-Methyl-3-nitrophenylboronic Acid CAS RN: 80500-27-2			2,3-Difluoro-4-methoxyphenylboronic Acid CAS RN: 170981-41-6					
D5080	1g 5g		E1192	1g 5g		M2244	1g 5g		M2685	1g 5g		T1960	1g 5g	
3,5-Dimethyl-4-propoxyphenylboronic Acid CAS RN: 357611-51-9			4-Ethoxy-2,3-difluorophenylboronic Acid CAS RN: 212386-71-5			4-Methoxy-2,6-dimethylphenylboronic Acid CAS RN: 361543-99-9			4-Methoxy-3,5-dimethylphenylboronic Acid CAS RN: 301699-39-8			2,4,6-Trimethylphenylboronic Acid CAS RN: 5980-97-2		
T2574	5g		T2654	1g 5g		T2804	1g 5g		T2837	1g		T2874	5g	
2,3,4-Trifluorophenylboronic Acid CAS RN: 226396-32-3			2,4,6-Triisopropylphenylboronic Acid CAS RN: 154549-38-9			2,4,6-Trifluorophenylboronic Acid CAS RN: 182482-25-3			3,4,5-Trimethoxyphenylboronic Acid CAS RN: 182163-96-8			2,3,5-Trifluorophenylboronic Acid CAS RN: 247564-73-4		

Aryl Boronic Acids (Tri-substituted)

B5174 4-Butoxy-2,3-difluorophenylboronic Acid CAS RN: 156487-12-6	C3226 3-Cyano-2,4-difluorophenylboronic Acid CAS RN: 871940-31-7	D4728 2,6-Difluoro-4-methoxyphenylboronic Acid CAS RN: 406482-20-0	D5006 2,6-Difluoro-3-methoxyphenylboronic Acid CAS RN: 870779-02-5	D5083 2,3-Difluoro-4-propoxyphenylboronic Acid CAS RN: 212837-49-5
E1210 3-Ethoxy-2,6-difluorophenylboronic Acid CAS RN: 849062-00-6	E1216 4-Ethoxy-3,5-dimethylphenylboronic Acid CAS RN: 850568-59-1	M2838 4-Methoxy-2,5-dimethylphenylboronic Acid CAS RN: 246023-54-1	T3382 2,4,6-Trichlorophenylboronic Acid CAS RN: 73852-18-3	T3383 3,4,5-Trichlorophenylboronic Acid CAS RN: 862248-93-9
T3851 2,3,5-Trichlorophenylboronic Acid CAS RN: 212779-19-6	Aryl Boronic Acids (Penta-substituted)		P1904 Pentafluorophenylboronic Acid CAS RN: 1582-24-7	Heteroaryl Boronic Acids
B2978 Benzofuran-2-boronic Acid CAS RN: 98437-24-2	B2893 Benzo[b]thiophene-2-ylboronic Acid CAS RN: 98437-23-1	B3307 2-Bromopyridine-5-boronic Acid CAS RN: 223463-14-7	B2862 5-Bromo-2-thiopheneboronic Acid CAS RN: 162607-17-2	B4063 1-(tert-Butoxycarbonyl)-2-pyrroleboronic Acid CAS RN: 135884-31-0
C2560 2-Chloropyridine-3-boronic Acid CAS RN: 381248-04-0	C2589 2-Chloropyridine-4-boronic Acid CAS RN: 458532-96-2	C2288 2-Chloropyridine-5-boronic Acid CAS RN: 444120-91-6	C2066 5-Chloro-2-thiopheneboronic Acid CAS RN: 162607-18-3	D4373 Dibenzothiophene-2-boronic Acid CAS RN: 668983-97-9
D4057 Dibenzothiophene-4-boronic Acid CAS RN: 108847-20-7	D4006 2,6-Difluoro-3-pyridineboronic Acid CAS RN: 136466-94-9	D4711 2,3-Dihydrobenzofuran-5-boronic Acid CAS RN: 227305-69-3	D4690 2,6-Dimethoxypyridine-3-boronic Acid CAS RN: 221006-70-8	E1115 2-Ethoxypyridine-5-boronic Acid CAS RN: 612845-44-0
F0984 2-Fluoro-3-methylpyridine-5-boronic Acid CAS RN: 904326-92-7	F0739 2-Fluoropyridine-3-boronic Acid CAS RN: 174669-73-9	F0935 2-Fluoropyridine-4-boronic Acid CAS RN: 401815-98-3	F0770 2-Fluoropyridine-5-boronic Acid CAS RN: 351019-18-6	F0859 5-Fluoropyridine-3-boronic Acid CAS RN: 872041-86-6
F0548 5'-Formyl-2,2'-bithiophene-5-boronic Acid CAS RN: 1369328-62-0	F0611 5-Formyl-2-furanboronic Acid CAS RN: 27329-70-0	F0549 5-Formyl-2-thiopheneboronic Acid CAS RN: 4347-33-5	F0394 2-Furylboronic Acid CAS RN: 13331-23-2	F0438 3-Furylboronic Acid CAS RN: 55552-70-0

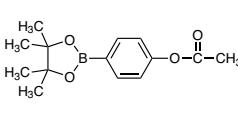
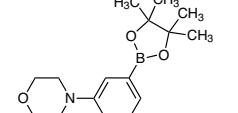
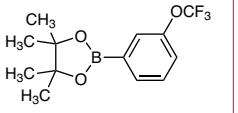
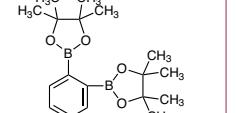
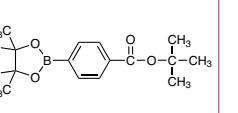
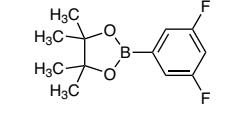
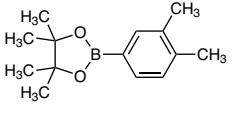
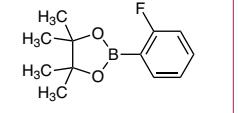
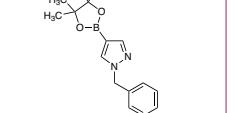
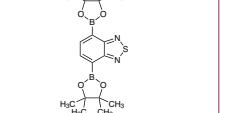
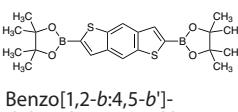
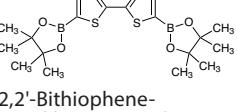
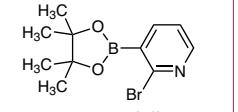
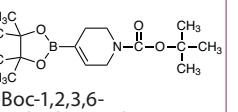
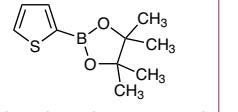
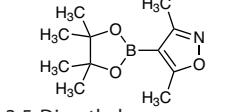
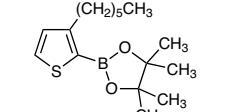
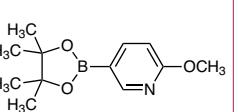
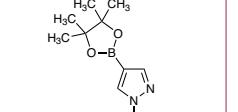
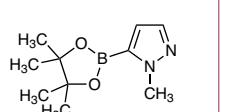
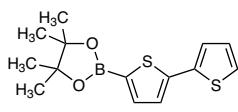
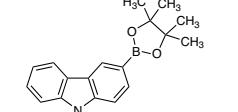
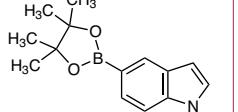
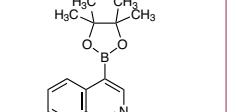
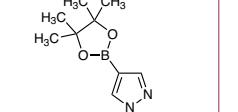
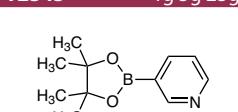
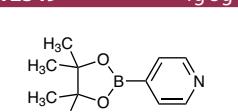
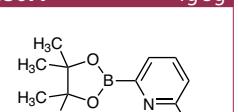
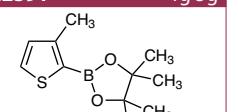
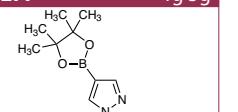
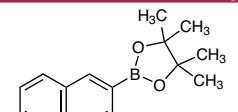
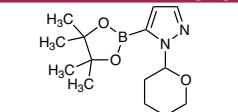
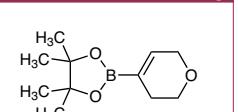
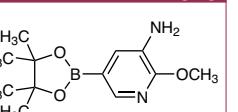
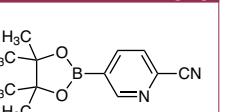
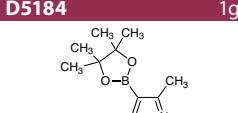
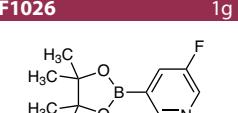
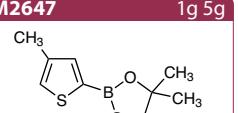
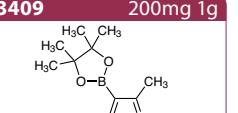
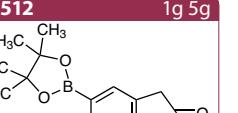
Suzuki-Miyaura Cross Coupling Reaction

I0803	1g		M2159	1g 5g		M2029	1g 5g		M2335	1g 5g		M2035	5g 25g	
6-Indoleboronic Acid CAS RN: 147621-18-9			2-Methoxypyridine-3-boronic Acid CAS RN: 163105-90-6			2-Methoxypyridine-5-boronic Acid CAS RN: 163105-89-3			2-Methoxy-5-pyrimidylboronic Acid CAS RN: 628692-15-9			3,4-(Methylenedioxy)phenylboronic Acid CAS RN: 94839-07-3		
M1850	1g 5g		P2169	200mg 1g		P2001	5g 25g		P1673	1g 5g 25g		P1594	1g 5g	
5-Methyl-2-thiopheneboronic Acid CAS RN: 162607-20-7			9-Phenylcarbazole-2-boronic Acid CAS RN: 1001911-63-2			9-Phenylcarbazole-3-boronic Acid CAS RN: 854952-58-2			3-Pyridylboronic Acid CAS RN: 1692-25-7			4-Pyridylboronic Acid CAS RN: 1692-15-5		
P1759	100mg 1g		Q0080	1g 5g		Q0087	200mg		Q0086	200mg 1g		T2621	1g	
5-Pyrimidylboronic Acid CAS RN: 109299-78-7			Quinoline-3-boronic Acid CAS RN: 191162-39-7			Quinoline-5-boronic Acid CAS RN: 355386-94-6			Quinoline-8-boronic Acid CAS RN: 86-58-8			Thieno[3,2-b]thiophene-2-boronic Acid CAS RN: 160032-40-6		
T1772	1g 5g 25g		T1975	1g 5g		T3188	1g		B4181	1g		B4774	1g 5g	
2-Thiopheneboronic Acid CAS RN: 6165-68-0			3-Thiopheneboronic Acid CAS RN: 6165-69-1			2-(Trifluoromethyl)pyridine-5-boronic Acid CAS RN: 868662-36-6			1,4-Benzodioxane-6-boronic Acid CAS RN: 164014-95-3			Benzo[b]thiophene-3-boronic Acid CAS RN: 113893-08-6		
C3125	1g		D4707	1g 5g		E1153	1g 5g		M2253	1g 5g		M2730	1g 5g	
5-Chloro-2-fluoropyridine-3-boronic Acid CAS RN: 937595-70-5			2,6-Dichloropyridine-3-boronic Acid CAS RN: 148493-34-9			9-Ethylcarbazole-3-boronic Acid CAS RN: 669072-93-9			2-Methylpyridine-5-boronic Acid Hydrochloride CAS RN: 2096333-73-0			2-Methoxypyridine-4-boronic Acid CAS RN: 762262-09-9		
M2810	1g 5g		B5170	1g 5g		D5081	1g 5g		D5082	1g 5g		A2900	1g	
5-Methoxypyridine-3-boronic Acid CAS RN: 850991-69-4			2-Bromopyridine-3-boronic Acid CAS RN: 452972-08-6			2,3-Dichloropyridine-4-boronic Acid CAS RN: 951677-39-7			2,5-Dichloropyridine-4-boronic Acid CAS RN: 847664-64-6			2-Aminopyrimidine-5-boronic Acid CAS RN: 936250-22-5		
B5889	1g 5g		T3706	1g 5g		B5145	1g		C3588	1g 5g		D4567	1g 5g	
6-Benzylxypyridine-3-boronic Acid CAS RN: 929250-35-1			1-Thianthrenylboronic Acid CAS RN: 108847-76-3			1-Boc-indole-2-boronic Acid CAS RN: 213318-44-6			2-Chloro-3-methylpyridine-5-boronic Acid CAS RN: 1003043-40-0			Dibenzofuran-4-boronic Acid CAS RN: 100124-06-9		
D5758	1g 5g		F0801	1g 5g		F1237	200mg 1g		M2840	1g 5g		M2967	1g	
Dibenzofuran-1-boronic Acid CAS RN: 162607-19-4			3-Formyl-2-thiopheneboronic Acid CAS RN: 17303-83-2			3-Fluoro-2-methoxypyridine-5-boronic Acid CAS RN: 856250-60-7			4-Methyl-2-thiopheneboronic Acid CAS RN: 162607-15-0			2-(Morpholino)pyridine-5-boronic Acid CAS RN: 904326-93-8		

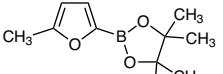
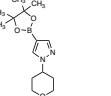
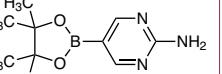
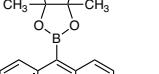
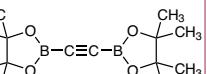
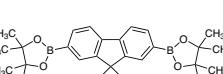
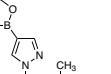
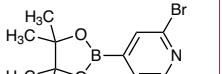
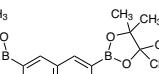
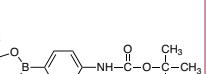
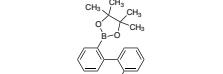
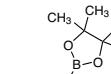
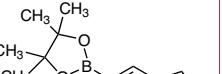
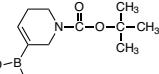
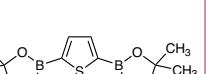
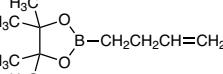
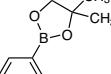
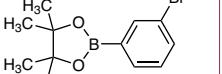
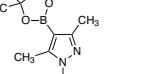
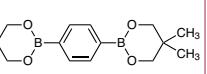
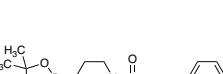
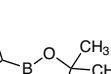
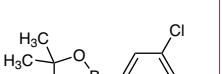
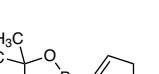
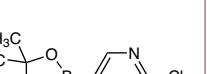
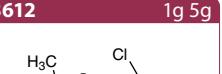
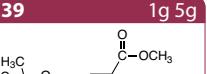
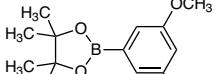
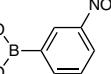
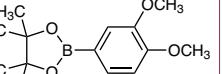
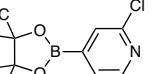
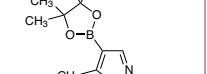
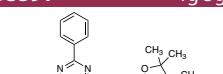
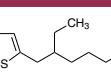
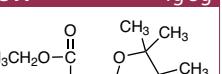
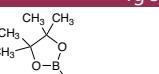
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F0280 Ferroceneboronic Acid CAS RN: 12152-94-2	F0664 1,1'-Ferrocenediboronic Acid CAS RN: 32841-83-1	Alkyl Boronic Acid		M1553 Methylboronic Acid CAS RN: 13061-96-6	E0913 Ethylboronic Acid CAS RN: 4433-63-0
P1942 Propylboronic Acid CAS RN: 17745-45-8	I0787 Isopropylboronic Acid CAS RN: 80041-89-0	B0529 Butylboronic Acid CAS RN: 4426-47-5	I0597 Isobutylboronic Acid CAS RN: 84110-40-7	P2267 Pentylboronic Acid CAS RN: 4737-50-2	
H0913 Hexylboronic Acid CAS RN: 16343-08-1	00452 n-Octylboronic Acid CAS RN: 28741-08-4	P2476 2-Phenylethylboronic Acid CAS RN: 34420-17-2	C2442 Cyclopentylboronic Acid CAS RN: 63076-51-7	C2188 Cyclohexylboronic Acid CAS RN: 4441-56-9	
Boronate Esters					
B3199 (Bromomethyl)boronic Acid Pinacol Ester CAS RN: 166330-03-6	C2707 1-Cyclohexeneboronic Acid Pinacol Ester CAS RN: 141091-37-4	D3738 Allylboronic Acid Diisopropyl Ester CAS RN: 51851-79-7	D3649 (Bromomethyl)boronic Acid Diisopropyl Ester CAS RN: 137297-49-5	E1116 Ethylboronic Acid Pinacol Ester CAS RN: 82954-89-0	
M2071 4-Methoxybenzylboronic Acid Pinacol Ester CAS RN: 475250-52-3	B4103 Bis[(pinacolato)boryl]-methane CAS RN: 78782-17-9	C3101 Cyclohexylboronic Acid Pinacol Ester CAS RN: 87100-15-0	E1074 Ethynylboronic Acid Pinacol Ester CAS RN: 347389-74-6	B4633 1,4-Benzenediboronic Acid Bis(pinacol) Ester CAS RN: 99770-93-1	
B3019 4-Biphenylboronic Acid Pinacol Ester CAS RN: 1444T32-80-4	B3151 4,4'-Biphenyldiboronic Acid Bis(neopentyl Glycol)-Ester CAS RN: 5487-93-4	B3501 1,1'-Ferrocenediboronic Acid Bis(pinacol) Ester CAS RN: 737776-93-1	B2828 2-Bromophenylboronic Acid Pinacol Ester CAS RN: 269410-06-2	C2004 2-Chlorophenylboronic Acid Neopentyl Glycol Ester CAS RN: 346656-42-6	

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C2823 2-Cyanophenylboronic Acid Neopentyl Glycol Ester CAS RN: 214360-47-1	C2621 2-Cyanophenylboronic Acid Pinacol Ester CAS RN: 214360-48-2	D4575 3,5-Dichlorophenylboronic Acid Pinacol Ester CAS RN: 68716-51-8	D4201 3,5-Dichloro-4-hydroxyphenylboronic Acid Pinacol Ester CAS RN: 1003298-87-0	D3601 4-(Diethylamino)phenylboronic Acid Pinacol Ester CAS RN: 920304-57-0
D4195 Phenylboronic Acid Neopentyl Glycol Ester CAS RN: 5123-13-7	D3533 3,5-Dimethylphenylboronic Acid Pinacol Ester CAS RN: 325142-93-6	D3832 4-(Dimethylamino)phenylboronic Acid Pinacol Ester CAS RN: 171364-78-6	D2853 3-(Methoxycarbonyl)phenylboronic Acid Pinacol Ester CAS RN: 269410-25-5	E0667 Ethyl 2-(5,5-Dimethyl-1,3,2-dioxaborinan-2-yl)benzoate CAS RN: 346656-34-6
F0531 2-Fluorophenylboronic Acid Neopentyl Glycol Ester CAS RN: 346656-39-1	H1280 2-(Hydroxymethyl)-phenylboronic Acid Cyclic Monoester CAS RN: 5735-41-1	I0653 2-Iodophenylboronic Acid Pinacol Ester CAS RN: 857934-82-8	M2665 3-(Methoxycarbonyl)phenylboronic Acid Pinacol Ester CAS RN: 480425-35-2	N0824 4-Amino-3-nitrophenylboronic Acid Pinacol Ester CAS RN: 833486-94-5
P1855 Phenylboronic Acid Pinacol Ester CAS RN: 24388-23-6	T1950 4'-(4,4,5,5-Tetramethyl-1,3,2-dioxaborolan-2-yl)-acetanilide CAS RN: 214360-60-8	T3028 3-Aminophenylboronic Acid Pinacol Ester CAS RN: 210907-84-9	T1951 4-Aminophenylboronic Acid Pinacol Ester CAS RN: 214360-73-3	T3196 4-Methoxyphenylboronic Acid Pinacol Ester CAS RN: 171364-79-7
T2923 4-Formylphenylboronic Acid Pinacol Ester CAS RN: 128376-64-7	T3162 3-Carboxyphenylboronic Acid Pinacol Ester CAS RN: 269409-73-6	T2841 4-Carboxyphenylboronic Acid Pinacol Ester CAS RN: 180516-87-4	T2945 4-(Bromomethyl)phenylboronic Acid Pinacol Ester CAS RN: 138500-85-3	T3031 (4'-Hydroxybiphenyl-4-yl)-boronic Acid Pinacol Ester CAS RN: 760989-91-1
T1952 2-Hydroxyphenylboronic Acid Pinacol Ester CAS RN: 269409-97-4	T1953 3-Hydroxyphenylboronic Acid Pinacol Ester CAS RN: 214360-76-6	T1954 4-Hydroxyphenylboronic Acid Pinacol Ester CAS RN: 269409-70-3	T3218 Naphthalene-1-boronic Acid Pinacol Ester CAS RN: 68716-52-9	T3219 <i>m</i> -Tolylboronic Acid Pinacol Ester CAS RN: 253342-48-2
T2888 <i>p</i> -Tolylboronic Acid Pinacol Ester CAS RN: 195062-57-8	T2428 2-[2-(Trifluoromethyl)phenyl]-4,4,5,5-tetramethyl-1,3,2-dioxaborane CAS RN: 1073339-21-5	B4771 4-Bromophenylboronic Acid Pinacol Ester CAS RN: 68716-49-4	T3103 4-(Trifluoromethyl)phenylboronic Acid Pinacol Ester CAS RN: 214360-65-3	B5095 3,5-Bis(trifluoromethyl)phenylboronic Acid Pinacol Ester CAS RN: 69807-91-6
C2993 2-Cyanophenylboronic Acid 1,3-Propanediol Ester CAS RN: 172732-52-4	N1006 2-Nitrophenylboronic Acid Pinacol Ester CAS RN: 190788-59-1	T3161 2-Formylphenylboronic Acid Pinacol Ester CAS RN: 380151-85-9	T3195 <i>o</i> -Tolylboronic Acid Pinacol Ester CAS RN: 195062-59-0	T3216 3-Acetamidophenylboronic Acid Pinacol Ester CAS RN: 480424-93-9

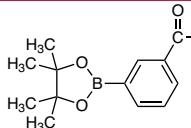
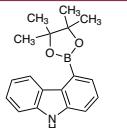
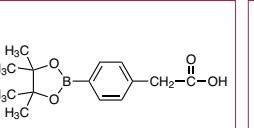
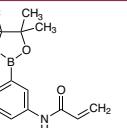
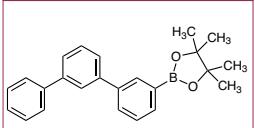
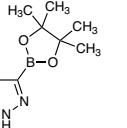
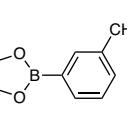
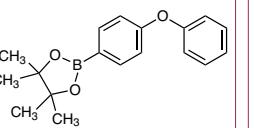
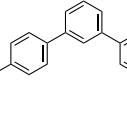
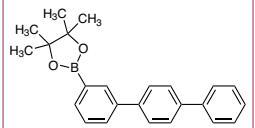
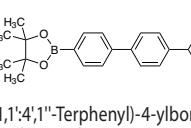
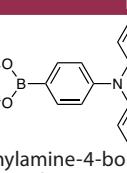
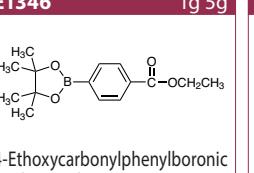
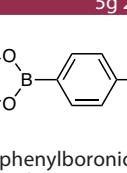
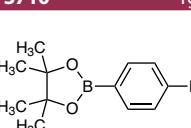
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D5017  3,5-Difluorophenylboronic Acid Pinacol Ester CAS RN: 863868-36-4	D5085  3,4-Dimethylphenylboronic Acid Pinacol Ester CAS RN: 401797-00-0	F1085  2-Fluorophenylboronic Acid Pinacol Ester CAS RN: 876062-39-4	B4364  1-Benzylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 761446-45-1	B3573  2,1,3-Benzothiadiazole-4,7-diboronic Acid Bis(pinacol) Ester CAS RN: 934365-16-9
B4158  Benzo[1,2-b:4,5-b']dithiophene-2,6-diboronic Acid Bis(pinacol) Ester CAS RN: 861398-06-3	B3363  2,2'-Bithiophene-5,5'-diboronic Acid Bis(pinacol) Ester CAS RN: 239075-02-6	B3749  2-Bromo-3-pyridylboronic Acid Pinacol Ester CAS RN: 452972-12-2	B4051  1-Boc-1,2,3,6-tetrahydropyridine-4-boronic Acid Pinacol Ester CAS RN: 286961-14-6	T2924  2-Thiopheneboronic Acid Pinacol Ester CAS RN: 193978-23-3
D3772  3,5-Dimethyl-4-isoxazoleboronic Acid Pinacol Ester CAS RN: 832114-00-8	H1298  3-Hexyl-2-thiopheneboronic Acid Pinacol Ester CAS RN: 850881-09-3	M2650  6-Methoxy-3-pyridylboronic Acid Pinacol Ester CAS RN: 445264-61-9	M2339  1-Methylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 761446-44-0	M2681  1-Methylpyrazole-5-boronic Acid Pinacol Ester CAS RN: 847818-74-0
T2518  2,2'-Bithiophene-5-boronic Acid Pinacol Ester CAS RN: 479719-88-5	T3117  (9H-Carbazol-3-yl)boronic Acid Pinacol Ester CAS RN: 855738-89-5	I0590  5-Indoleboronic Acid Pinacol Ester CAS RN: 269410-24-4	I0739  Isoquinoline-4-boronic Acid Pinacol Ester CAS RN: 685103-98-4	T2756  4-Pyrazoleboronic Acid Pinacol Ester CAS RN: 269410-08-4
T2345  3-Pyridylboronic Acid Pinacol Ester CAS RN: 329214-79-1	T2349  4-Pyridylboronic Acid Pinacol Ester CAS RN: 181219-01-2	B5077  6-Bromo-2-pyridylboronic Acid Pinacol Ester CAS RN: 651358-83-7	M2391  3-Methyl-2-thiopheneboronic Acid Pinacol Ester CAS RN: 885692-91-1	P2277  1-Propylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 827614-69-7
T3180  Quinoline-3-boronic Acid Pinacol Ester CAS RN: 171364-85-5	T3215  1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazole-5-boronic Acid Pinacol Ester CAS RN: 903550-26-5	T3217  3,6-Dihydro-2H-pyran-4-boronic Acid Pinacol Ester CAS RN: 287944-16-5	A2993  3-Amino-2-methoxypyridine-5-boronic Acid Pinacol Ester CAS RN: 893440-50-1	C3126  6-Cyano-3-pyridylboronic Acid Pinacol Ester CAS RN: 741709-63-7
D5184  1,3-Dimethylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 1046832-21-6	F1026  5-Fluoro-3-pyridylboronic Acid Pinacol Ester CAS RN: 719268-92-5	M2647  4-Methyl-2-thiopheneboronic Acid Pinacol Ester CAS RN: 635305-48-5	T3409  1,3,5-Trimethylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 844891-04-9	T3512  5-Oxindoleboronic Acid Pinacol Ester CAS RN: 837392-64-0

Suzuki-Miyaura Cross Coupling Reaction

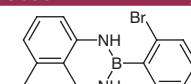
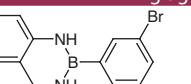
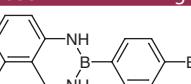
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B5157 1g 5g  9,9-Dimethylfluorene-2,7-diboronic Acid Bis(pinacol) Ester CAS RN: 325129-69-9	B5203 1g 5g  1-Boc-pyrazolyl-4-boronic Acid Pinacol Ester CAS RN: 552846-17-0	B5238 1g  9,9-Dimethylfluorene-2,7-diboronic Acid Bis(pinacol) Ester CAS RN: 458532-82-6	B5288 1g  2,7-Naphthalenediboronic Acid Bis(pinacol) Ester CAS RN: 853377-10-3	B5588 1g 5g  4-(Boc-amino)phenylboronic Acid Pinacol Ester CAS RN: 330793-01-6
B5703 200mg 1g  2,2'-Biphenyldiboronic Acid Bis(pinacol) Ester CAS RN: 398128-09-1	B5704 200mg 1g  3,3'-Biphenyldiboronic Acid Bis(pinacol) Ester CAS RN: 850264-92-5	B5823 250mg 1g  Benzofuran-5-boronic Acid Pinacol Ester CAS RN: 519054-55-8	B5844 200mg 1g  1-Boc-5,6-Dihydro-2H-pyridine-3-boronic Acid Pinacol Ester CAS RN: 885693-20-9	B5871 1g 5g  Thiophene-2,5-diboronic Acid Bis(pinacol) Ester CAS RN: 175361-81-6
B5960 1g 5g  (3-Buten-1-yl)boronic Acid Pinacol Ester CAS RN: 331958-92-0	B6023 1g 5g  3-Biphenylboronic Acid Pinacol Ester CAS RN: 912844-88-3	B6024 1g 5g  3-Bromophenylboronic Acid Pinacol Ester CAS RN: 594823-67-3	B6026 200mg 1g  1-Boc-3,5-dimethylpyrazole-4-boronic Acid Pinacol Ester CAS RN: 1073354-70-7	B6050 1g  1,4-Benzenediboronic Acid Bis(neopentyl Glycol) Ester CAS RN: 5565-36-6
C3243 1g 5g  1-Cbz-1,2,3,6-tetrahydropyridine-4-boronic Acid Pinacol Ester CAS RN: 286961-15-7	C3301 1g 5g  5-Chloro-2-thiophenylboronic Acid Pinacol Ester CAS RN: 635305-24-7	C3367 200mg 1g  5-Chloropyridine-3-boronic Acid Pinacol Ester CAS RN: 865186-94-3	C3385 1g 5g  1-Cyclopenteneboronic Acid Pinacol Ester CAS RN: 287944-10-9	C3436 1g 5g  2-Chloropyrimidine-5-boronic Acid Pinacol Ester CAS RN: 1003845-08-6
C3500 5g 25g  4-Chlorophenylboronic Acid Pinacol Ester CAS RN: 195062-61-4	C3529 1g 5g  2-Chloropyridine-4-boronic Acid Pinacol Ester CAS RN: 458532-84-8	C3612 1g 5g  2-Chlorophenylboronic Acid Pinacol Ester CAS RN: 870195-94-1	D5142 200mg 1g  2,6-Difluoropyridine-3-boronic Acid Pinacol Ester CAS RN: 1072945-00-6	D5239 1g 5g  3,5-Bis(methoxycarbonyl)-benzeneboronic Acid Pinacol Ester CAS RN: 944392-68-1
D5360 1g 5g  3,5-Dimethoxyphenylboronic Acid Pinacol Ester CAS RN: 365564-07-4	D5431 200mg 1g  3,5-Dinitrophenylboronic Acid Pinacol Ester CAS RN: 428820-95-5	D5533 1g 5g  3,4-Dimethoxyphenylboronic Acid Pinacol Ester CAS RN: 365564-10-9	D5574 1g 5g  2,6-Dichloropyridine-4-boronic Acid Pinacol Ester CAS RN: 408492-27-3	D5575 200mg 1g  1,5-Dimethyl-1H-pyrazole-4-boronic Acid Pinacol Ester CAS RN: 1036991-40-8
D5591 1g 5g  3-(4,6-Diphenyl-1,3,5-triazine-2-yl)phenylboronic Acid Pinacol Ester CAS RN: 1269508-31-7	E1295 1g  5-(2-Ethylhexyl)-2-thiophenylboronic Acid Pinacol Ester CAS RN: 1390584-88-9	E1311 1g 5g  2-Ethoxycarbonylphenylboronic Acid Pinacol Ester CAS RN: 269409-99-6	E1348 1g 5g  1-Ethyl-1H-pyrazole-4-boronic Acid Pinacol Ester CAS RN: 847818-70-6	E1393 1g  4-(Ethoxycarbonylmethyl)-phenylboronic Acid Pinacol Ester CAS RN: 859169-20-3

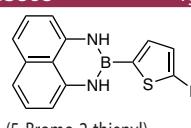
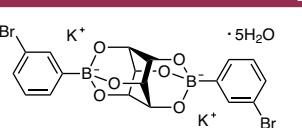
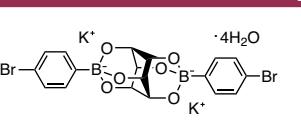
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I1109 Isopropylboronic Acid Pinacol Ester CAS RN: 76347-13-2	M2867 2-Methylpyridine-4-boronic Acid Pinacol Ester CAS RN: 660867-80-1	M2994 3-Methoxypyridine-5-boronic Acid Pinacol Ester CAS RN: 445264-60-8	M3020 6-Methyl-3-pyridylboronic Acid Pinacol Ester CAS RN: 610768-32-6	M3057 4-(Methoxycarbonyl)-phenylboronic Acid Pinacol Ester CAS RN: 171364-80-0
M3116 6-(4-Methylpiperazin-1-yl)pyridine-3-boronic Acid Pinacol Ester CAS RN: 918524-63-7	M3124 3-Methoxyphenylboronic Acid Pinacol Ester CAS RN: 325142-84-5	M3231 4-Methyl-3-pyridylboronic Acid Pinacol Ester CAS RN: 1171891-31-8	M3232 1-(2-Methoxyethyl)-1H-pyrazole-4-boronic Acid Pinacol Ester CAS RN: 847818-71-7	M3233 2-(Methoxycarbonyl)-phenylboronic Acid Pinacol Ester CAS RN: 653589-95-8
M3236 4-(Methoxycarbonylmethyl)-phenylboronic Acid Pinacol Ester CAS RN: 454185-98-9	P2562 (9,9'-Spirobi[fluoren]-3-yl)-boronic Acid Pinacol Ester CAS RN: 1346007-05-3	P2602 2,4,4,5,5-Pentamethyl-1,3,2-dioxaborolane CAS RN: 94242-85-0	T2521 5-Pyrimidylboronic Acid Pinacol Ester CAS RN: 321724-19-0	T3150 2-Pyreneboronic Acid Pinacol Ester CAS RN: 853377-11-4
T3393 2-(Bromomethyl)phenylboronic Acid Pinacol Ester CAS RN: 377780-72-8	T3399 3-(4-Pyridyl)phenylboronic Acid Pinacol Ester CAS RN: 1009033-83-3	T3400 4-(4-Pyridyl)phenylboronic Acid Pinacol Ester CAS RN: 1009033-87-7	T3441 (9H-Carbazol-2-yl)boronic Acid Pinacol Ester CAS RN: 1242412-60-7	T3468 4-[(Tetrahydro-2H-pyran-2-yl)oxy]phenylboronic Acid Pinacol Ester CAS RN: 889865-38-7
T3469 (2-Methyl-1-propenyl)-boronic Acid Pinacol Ester CAS RN: 126689-00-7	T3477 4-(Morpholinomethyl)-phenylboronic Acid Pinacol Ester CAS RN: 364794-79-6	T3485 5-Formyl-2-thiopheneboronic Acid Pinacol Ester CAS RN: 1040281-83-1	T3496 4-(Hydroxymethyl)phenylboronic Acid Pinacol Ester CAS RN: 302348-51-2	T3507 Quinoline-6-boronic Acid Pinacol Ester CAS RN: 406463-06-7
T3514 3-Cyanopyridine-5-boronic Acid Pinacol Ester CAS RN: 402718-29-0	T3515 1,3,5-Phenyltriboronic Acid Tris(pinacol) Ester CAS RN: 365564-05-2	T3543 2-Aminophenylboronic Acid Pinacol Ester CAS RN: 191171-55-8	T3557 4-(Methanesulfonylamino)-phenylboronic Acid Pinacol Ester CAS RN: 616880-14-9	T3566 1,4-Dioxaspiro[4.5]dec-7-en-8-boronic Acid Pinacol Ester CAS RN: 680596-79-6
T3626 (Naphthalen-1-ylmethyl)-boronic Acid Pinacol Ester CAS RN: 475250-57-8	T3665 10-Phenylanthracene-9-boronic Acid Pinacol Ester CAS RN: 460347-59-5	T3705 4-Morpholinophenylboronic Acid Pinacol Ester CAS RN: 568577-88-8	T3707 3-(Trifluoromethyl)phenylboronic Acid Pinacol Ester CAS RN: 325142-82-3	T3708 2-Methoxyphenylboronic Acid Pinacol Ester CAS RN: 190788-60-4

Suzuki-Miyaura Cross Coupling Reaction

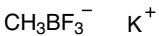
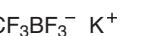
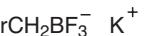
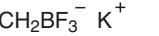
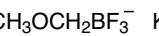
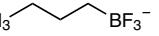
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T3829  1g 5g 1H-Pyrazole-3-boronic Acid Pinacol Ester CAS RN: 844501-71-9	T3830  1g 5g 3-(Hydroxymethyl)phenylboronic Acid Pinacol Ester CAS RN: 443776-76-9	T3831  1g 5g Phenoxyphenyl-4-boronic Acid Pinacol Ester CAS RN: 269410-26-6	T3873  200mg 1g (1,1':3',1"-Terphenyl)-4-ylboronic Acid Pinacol Ester CAS RN: 1385826-84-5	T3874  1g 5g (1,1':4',1"-Terphenyl)-3-ylboronic Acid Pinacol Ester CAS RN: 1401577-23-8
T3875  1g (1,1':4',1"-Terphenyl)-4-ylboronic Acid Pinacol Ester CAS RN: 1080632-76-3	D5534  1g 5g Triphenylamine-4-boronic Acid Pinacol Ester CAS RN: 267221-88-5	E1346  1g 5g 4-Ethoxycarbonylphenylboronic Acid Pinacol Ester CAS RN: 195062-62-5	F1201  5g 25g 4-Fluorophenylboronic Acid Pinacol Ester CAS RN: 214360-58-4	M3245  1g 5g 3-(4-Methyl-1-piperazinylmethyl)benzeneboronic Acid Pinacol Ester CAS RN: 883738-27-0
T3710  1g 5g 4-Nitrophenylboronic Acid Pinacol Ester CAS RN: 171364-83-3				

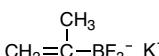
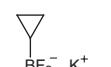
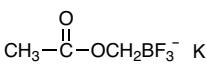
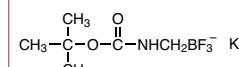
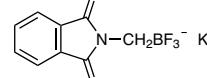
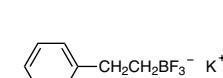
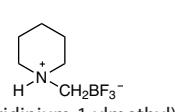
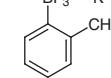
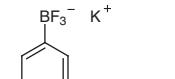
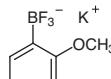
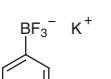
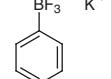
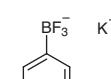
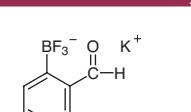
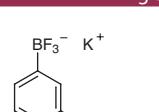
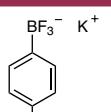
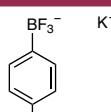
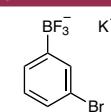
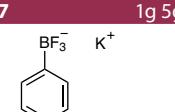
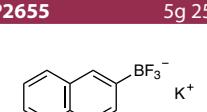
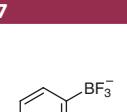
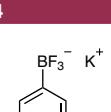
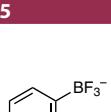
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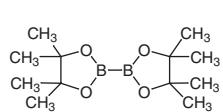
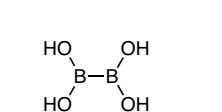
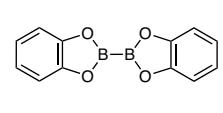
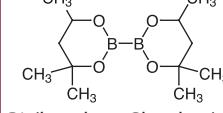
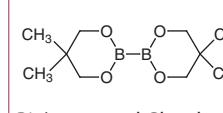
B3868  1g 5g 2-(5-Bromo-2-thienyl)-2,3-dihydro-1H-naphtho[1,8-de][1,3,2]-diazaborine CAS RN: 927384-46-1	B4523  200mg 1g Bis(3-bromophenylboronic Acid) scylo-Inositol Complex Dipotassium Pentahydrate CAS RN: 1537876-31-5	B4524  200mg 1g Bis(4-bromophenylboronic Acid) scylo-Inositol Complex Dipotassium Tetrahydrate CAS RN: 1537876-29-1
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Trifluoroborate Salts

P1478  1g 5g CH ₃ BF ₃ ⁻ K ⁺ Potassium Trifluoro(methyl)borate CAS RN: 13862-28-7	P1692  1g 5g 25g CF ₃ BF ₃ ⁻ K ⁺ Potassium Trifluoro(trifluoromethyl)borate CAS RN: 42298-15-7	P1807  1g 5g BrCH ₂ BF ₃ ⁻ K ⁺ Potassium (Bromomethyl)-trifluoroborate CAS RN: 888711-44-2
P1808  1g 5g ICH ₂ BF ₃ ⁻ K ⁺ Potassium (Iodomethyl)-trifluoroborate CAS RN: 888711-47-5	P2153  1g CH ₃ OCH ₂ BF ₃ ⁻ K ⁺ Potassium (Methoxymethyl)-trifluoroborate CAS RN: 910251-11-5	P1479  1g 5g 25g CH ₂ =CHBF ₃ ⁻ K ⁺ Potassium Vinyltrifluoroborate CAS RN: 13682-77-4
P2628  1g 5g CH ₃ CH ₂ BF ₃ ⁻ K ⁺ Potassium Ethyltrifluoroborate CAS RN: 882871-21-8	P2626  1g 5g CH ₃ CH ₂ CH ₂ BF ₃ ⁻ K ⁺ Potassium Butyltrifluoroborate CAS RN: 444343-55-9	

P2456  Potassium Isopropenyltrifluoroborate CAS RN: 395083-14-4	P1480  Potassium Allyl trifluoroborate CAS RN: 233664-53-4	P1846  Potassium Cyclopropyltrifluoroborate CAS RN: 1065010-87-8	P2494  Potassium (Acetoxymethyl)-trifluoroborate CAS RN: 910251-35-3	P2155  Potassium [(tert-Butoxycarbonyl)-amino]methyltrifluoroborate CAS RN: 1314538-55-0
P2514  Potassium (Phthalimidomethyl)-trifluoroborate CAS RN: 1001671-72-2	P1581  Potassium Trifluoro(2-phenylethyl)borate CAS RN: 329976-74-1	P2287  (Piperidinium-1-ylmethyl)-trifluoroborate CAS RN: 1268340-93-7	P1582  Potassium Phenyltrifluoroborate CAS RN: 153766-81-5	P1818  Potassium o-Tolyltrifluoroborate CAS RN: 274257-34-0
P1583  Potassium p-Tolyltrifluoroborate CAS RN: 216434-82-1	P1810  Potassium (2-Methoxyphenyl)-trifluoroborate CAS RN: 236388-46-8	P1580  Potassium (3-Methoxyphenyl)-trifluoroborate CAS RN: 438553-44-7	P1820  Potassium (4-Methoxyphenyl)-trifluoroborate CAS RN: 192863-36-8	P1814  Potassium (3-Cyanophenyl)-trifluoroborate CAS RN: 850623-46-0
P1812  Potassium (2-Formylphenyl)-trifluoroborate CAS RN: 192863-39-1	P1819  Potassium (3-Nitrophenyl)-trifluoroborate CAS RN: 192863-40-4	P1465  Potassium (4-Fluorophenyl)-trifluoroborate CAS RN: 192863-35-7	P2654  Potassium (4-Chlorophenyl)-trifluoroborate CAS RN: 661465-44-7	P2646  Potassium (3-Bromophenyl)-trifluoroborate CAS RN: 374564-34-8
P2647  Potassium (4-Bromophenyl)-trifluoroborate CAS RN: 374564-35-9	P2655  Potassium 2-Naphthalene-trifluoroborate CAS RN: 668984-08-5	P1717  Potassium 3-Pyridyl-trifluoroborate CAS RN: 561328-69-6	P1684  Potassium 4-Pyridyl-trifluoroborate CAS RN: 1111732-87-6	P2675  Potassium 2-Fluoropyridine-3-trifluoroborate CAS RN: 1111732-91-2

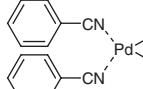
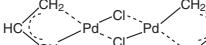
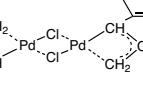
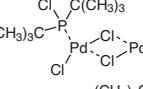
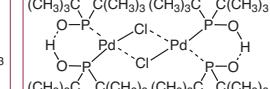
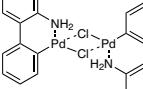
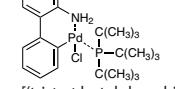
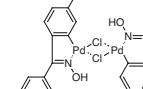
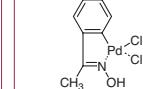
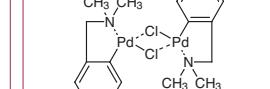
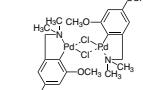
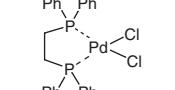
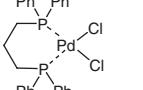
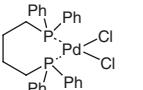
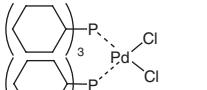
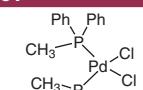
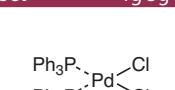
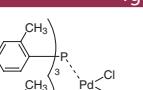
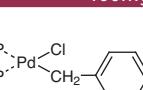
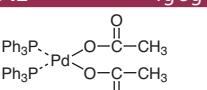
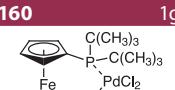
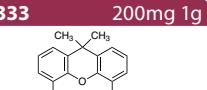
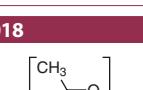
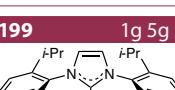
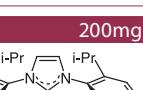
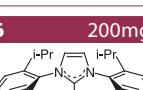
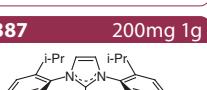
Diboronic Acid / Diboronic Acid Esters

B1964 1g 5g 25g 100g  Bis(pinacolato)diboron CAS RN: 73183-34-3	T2953 5g 25g  Tetrahydroxydiboron CAS RN: 13675-18-8	B3757 1g 5g  Bis(catecholato)diboron CAS RN: 13826-27-2	B2906 1g 5g  Bis(hexylene Glycolato)-diboron CAS RN: 230299-21-5	B2254 1g 5g 25g  Bis(neopentyl Glycolato)-diboron CAS RN: 201733-56-4
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Palladium Catalysts

P1490 5g 25g Pd Palladium 5% on Carbon (wetted with ca. 55% Water) CAS RN: 7440-05-3	P1491 5g 25g Pd Palladium 10% on Carbon (wetted with ca. 55% Water) CAS RN: 7440-05-3	P1785 5g 25g Pd Palladium 10% on Carbon (wetted with ca. 55% Water) CAS RN: 7440-05-3
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Suzuki-Miyaura Cross Coupling Reaction

P2238 5g 25g Pd Palladium 5% on Alumina CAS RN: 7440-05-3	P1528 10g 50g Pd(OH) ₂ Palladium Hydroxide 20% on Carbon (wetted with ca. 50% Water) CAS RN: 12135-22-7	A1424 1g 5g Pd(CH ₃ COO) ₂ Palladium(II) Acetate (Purified) CAS RN: 3375-31-3	P2161 1g Pd(CH ₃ COO) ₂ Palladium(II) Acetate (Purified) CAS RN: 3375-31-3	P2106 1g 5g [Pd(CH ₃ COO) ₂] ₃ Palladium(II) Acetate Trimer CAS RN: 53189-26-7
P1870 1g 5g Pd(CF ₃ COO) ₂ Palladium(II) Trifluoroacetate CAS RN: 42196-31-6	P1489 1g 5g PdCl ₂ Palladium(II) Chloride CAS RN: 7647-10-1	S0540 1g Na ₂ PdCl ₄ Sodium Tetrachloro- palladate(II) CAS RN: 13820-53-6	B1676 1g 5g (CH ₃ CN) ₂ PdCl ₂ Bis(acetonitrile)palladium(II) Dichloride CAS RN: 14592-56-4	T3023 1g Pd(CH ₃ CN) ₄ (CF ₃ SO ₃) ₂ Tetrakis(acetonitrile)- palladium(II) Ditriflate CAS RN: 68569-14-2
B1668 1g 5g  Bis(benzonitrile)palladium(II) Dichloride CAS RN: 14220-64-5	A1479 500mg 1g  Allylpalladium(II) Chloride Dimer CAS RN: 12012-95-2	P2017 200mg  Palladium(II)(π -cinnamyl) Chloride Dimer CAS RN: 12131-44-1	D3704 100mg  [Di-tert-butyl(chloro)phosphine]- palladium(II) Dichloride Dimer CAS RN: 386706-33-8	D3706 100mg  Dihydrogen Di- μ -chlorotetrakis(di- tert-butylphosphinito)dipalladate CAS RN: 386706-31-6
D4191 1g  Di- μ -chlorobis(2'-amino-1,1'- biphenyl-2-yl-C,N)dipalladium(II) CAS RN: 847616-85-7	C2734 1g  Chloro[(tri-tert-butylphosphine)- 2-(2-aminobiphenyl)] palladium(II) CAS RN: 1375325-71-5	D3806 250mg 1g  Najera Catalyst I CAS RN: 287410-78-0	D3807 250mg 1g  Najera Catalyst II CAS RN: 419581-64-9	D3847 1g  Di- μ -chlorobis[2-(dimethylamino)- methyl]phenyl-C,N)dipalladium(II) CAS RN: 18987-59-2
D4112 1g  Di- μ -chlorobis[2-(dimethylamino)- methyl]-4,6-dimethoxyphenyl- C,N)dipalladium(II) CAS RN: 18987-71-8	B2016 1g 5g  [1,2-Bis(diphenylphosphino)- ethane]palladium(II) Dichloride CAS RN: 19978-61-1	B2192 1g 5g  [1,3-Bis(diphenylphosphino)- propane]palladium(II) Dichloride CAS RN: 59831-02-6	B2031 1g 5g  [1,4-Bis(diphenylphosphino)- butane]palladium(II) Dichloride CAS RN: 29964-62-3	B2055 1g 5g  Bis(tricyclohexylphosphine)- palladium(II) Dichloride CAS RN: 29934-17-6
B2161 1g 5g  Bis(methylidiphenyl- phosphine)palladium(II) Dichloride CAS RN: 52611-08-2	B1667 1g 5g 25g  Bis(triphenylphosphine)- palladium(II) Dichloride CAS RN: 13965-03-2	B2026 1g 5g  Bis(tri-o-tolylphosphine)- palladium(II) Dichloride CAS RN: 40691-33-6	B2029 100mg 1g  Benzylbis(triphenyl- phosphine)palladium(II) Chloride CAS RN: 22784-59-4	B2042 1g 5g  Bis(triphenylphosphine)- palladium(II) Diacetate CAS RN: 14588-08-0
D2604 1g 5g  Dichloro(1,5-cyclooctadiene)palladium(II) CAS RN: 12107-56-1	B3160 1g 5g  [1,1'-Bis(di-tert-butylphosphino)- ferrocene]palladium(II) Dichloride CAS RN: 95408-45-0	B2064 1g 5g 25g  [1,1'-Bis(diphenylphosphino)ferrocene]palladium(II) Dichloride Dichloromethane Adduct CAS RN: 95464-05-4	D4333 200mg 1g  Dichloro[9,9-dimethyl- 4,5-bis(diphenylphosphino)- xanthene]palladium(II) CAS RN: 205319-10-4	
B2018 1g 5g  Bis(2,4-pentanedionato)- palladium(II) CAS RN: 14024-61-4	B6199 1g 5g 25g  Organ's Catalyst CAS RN: 905459-27-0	C2372 200mg 1g  SingaCycle™-A1 CAS RN: 930796-10-4	C2406 200mg 1g  SingaCycle™-A2 CAS RN: 1093348-08-3	C2387 200mg 1g  SingaCycle™-A3 CAS RN: 1228009-69-5

C2407 SingaCycle™-A4	200mg 1g	B3161 Bis(tri-tert-butyl-phosphine)palladium(0) CAS RN: 53199-31-8	250mg 1g	B4837 Bis[di-tert-butyl(4dimethylaminophenyl)phosphine]palladium(0) CAS RN: 1233717-68-4	500mg	B3224 Bis[1,2-bis(diphenylphosphino)ethane]palladium(0) CAS RN: 31277-98-2	1g 5g	T1350 Tetrakis(triphenylphosphine)palladium(0) CAS RN: 14221-01-3	1g 5g 25g
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B1374 Bis(dibenzylideneacetone)-palladium(0) CAS RN: 32005-36-0	1g 5g	T2184 Tris(dibenzylideneacetone)-dipalladium(0) CAS RN: 51364-51-3	1g 5g
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Nickel Catalysts

N0850 NiCl ₂	25g 500g	N0851 Nickel(II) Chloride Anhydrous CAS RN: 7718-54-9	25g 500g	N0760 Nickel(II) Acetate Tetrahydrate CAS RN: 6018-89-9	100g 500g
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N1050 Dibromo(glyme)nickel CAS RN: 28923-39-9	1g 10g	N1049 Nickel(II) Bromide 2-Methoxyethyl Ether Complex CAS RN: 312696-09-6	1g 10g	B2225 [1,2-Bis(diphenylphosphino)ethane]nickel(II) Dichloride CAS RN: 14647-23-5	1g 5g 25g	B1313 [1,3-Bis(diphenylphosphino)propane]nickel(II) Dichloride CAS RN: 15629-92-2	5g 25g	B2226 [1,1'-Bis(diphenylphosphino)ferrocene]nickel(II) Dichloride CAS RN: 67292-34-6	1g 5g
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N0096 Bis(2,4-pentanedionato)-nickel(II) Hydrate CAS RN: 120156-44-7	25g 100g 500g	B3534 Bis(tricyclohexylphosphine)-nickel(II) Dichloride CAS RN: 19999-87-2	1g 5g	D5369 Dichlorobis(dicyclohexylphenylphosphine)nickel(II) CAS RN: 19232-03-2	250mg	C3325 Jamison Catalyst CAS RN: 1419179-26-2	100mg 500mg	B3354 Bromo[(2,6-pyridinediyl)bis(3-methyl-1-imidazolyl-2-ylidene)]-nickel Bromide CAS RN: 894102-11-5	1g
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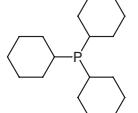
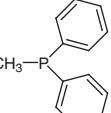
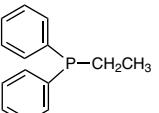
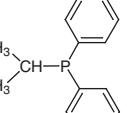
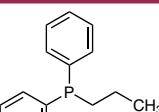
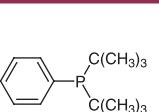
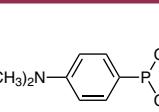
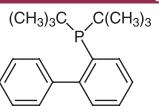
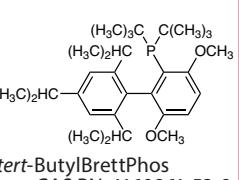
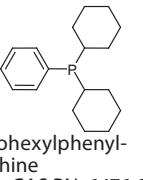
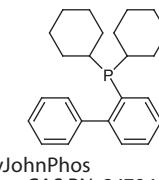
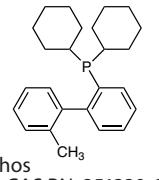
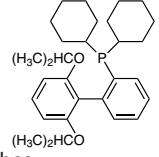
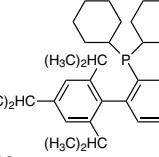
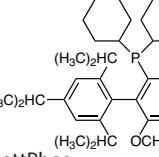
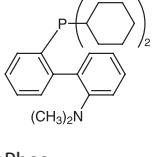
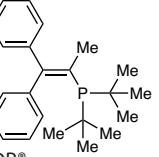
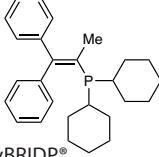
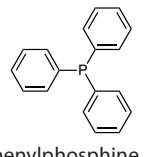
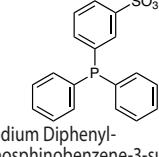
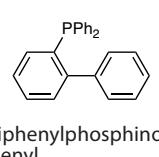
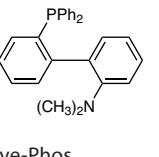
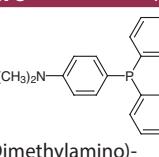
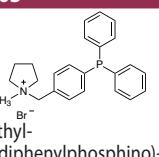
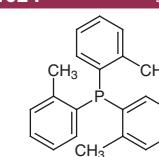
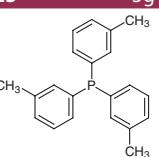
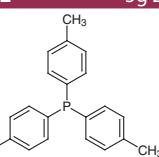
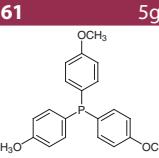
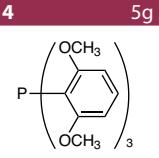
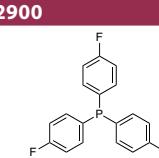
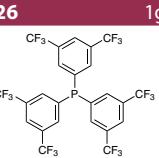
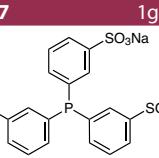
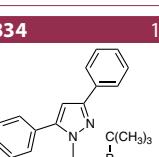
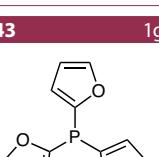
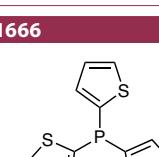
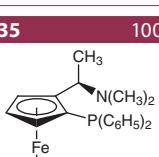
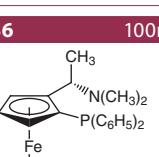
B3235 [1,3-Bis(2,6-diisopropylphenyl)imidazol-2-ylidene]-triphenylphosphine Nickel(II) Dichloride CAS RN: 903592-98-3	200mg 1g	B1571 Bis(triphenylphosphine)nickel(II) Dichloride CAS RN: 14264-16-5	10g 100g	S0487 Skeletal Nickel Catalyst slurry in Water CAS RN: 7440-02-0	50g	B3095 Ni(COD) ₂ CAS RN: 1295-35-8	5g
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B5417 Ni(COD) ₂ (Wax encapsulated) (ca. 0.05mmol/capsule) CAS RN: 1295-35-8	5each	T2584 Tri-tert-butylphosphonium Tetrafluoroborate CAS RN: 131274-22-1	1g 5g	T0361 Tributylphosphine CAS RN: 998-40-3	25mL 100mL 500mL	T2585 Tricyclohexylphosphonium Tetrafluoroborate CAS RN: 58656-04-5	1g 5g
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Phosphine Ligands

Please inquire for pricing and availability of listed products to our local sales representatives.

Suzuki-Miyaura Cross Coupling Reaction

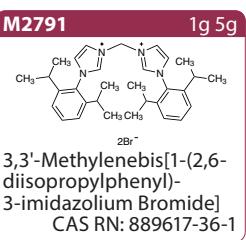
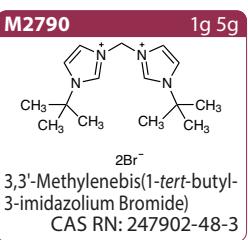
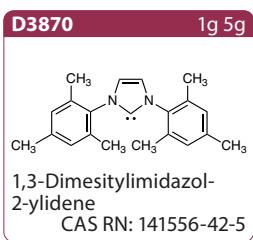
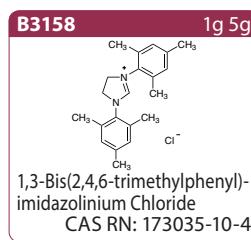
T1165 25mL  Tricyclohexylphosphine (contains Tricyclohexylphosphine Oxide) (ca. 18% in Toluene, ca. 0.60mol/L) CAS RN: 2622-14-2	M1318 1g 5g  Methyldiphenylphosphine CAS RN: 1486-28-8	E0519 5g  Ethyl diphenylphosphine CAS RN: 607-01-2	I0583 1g 5g  Isopropyl diphenylphosphine CAS RN: 6372-40-3	
D2630 5g  Diphenylpropylphosphine CAS RN: 7650-84-2	D3940 5g  Di-tert-butylphenylphosphine CAS RN: 32673-25-9	D4531 1g 5g  Amphos CAS RN: 932710-63-9	D3387 1g 5g  JohnPhos CAS RN: 224311-51-7	
D5663 250mg  tert-ButylBrettPhos CAS RN: 1160861-53-9	D2411 1g 5g  Dicyclohexylphenylphosphine CAS RN: 6476-37-5	D3388 1g 5g  CyJohnPhos CAS RN: 247940-06-3	D5035 1g 5g  MePhos CAS RN: 251320-86-2	
D5037 1g 5g  RuPhos CAS RN: 787618-22-8	D5038 1g 5g  XPhos CAS RN: 564483-18-7	D5664 250mg  BrettPhos CAS RN: 1070663-78-3	D3389 1g 5g  DavePhos CAS RN: 213697-53-1	V0132 200mg 1g  vBRIDP® CAS RN: 384842-25-5
C2981 200mg 1g  Cy-vBRIDP® CAS RN: 384842-24-4	T0519 25g 100g 500g  Triphenylphosphine CAS RN: 603-35-0	D2043 1g 5g  Sodium Diphenylphosphinobenzene-3-sulfonate CAS RN: 63995-75-5	D4688 1g  2-(Diphenylphosphino)biphenyl CAS RN: 13885-09-1	D4402 1g  PhDave-Phos CAS RN: 240417-00-9
D2478 1g 5g  4-(Dimethylamino)phenyldiphenylphosphine CAS RN: 739-58-2	M2103 1g  1-Methyl-1-[4-(diphenylphosphino)-benzyl]pyrrolidinium Bromide CAS RN: 1229444-44-3	T1024 5g 25g  Tri(o-tolyl)phosphine CAS RN: 6163-58-2	T1025 5g 25g  Tri(m-tolyl)phosphine CAS RN: 6224-63-1	T0862 5g 25g  Tri(p-tolyl)phosphine CAS RN: 1038-95-5
T0861 5g 25g  Tris(4-methoxyphenyl)phosphine CAS RN: 855-38-9	T1614 5g 25g  Tris(2,6-dimethoxyphenyl)phosphine CAS RN: 85417-41-0	T2900 5g  Tris(4-fluorophenyl)phosphine CAS RN: 18437-78-0	T2526 1g 5g  Tris[3,5-bis(trifluoromethyl)phenyl]phosphine CAS RN: 175136-62-6	T2187 1g 5g  Tris(3-sulfophenyl)phosphine Trisodium Salt CAS RN: 63995-70-0
D3834 1g 5g  TrippyPhos CAS RN: 628333-86-8	T1643 1g 5g  Tri(2-furyl)phosphine CAS RN: 5518-52-5	T1666 1g 5g  Tri(2-thienyl)phosphine CAS RN: 24171-89-9	D2535 100mg  (R)-(S)-PPFA CAS RN: 55700-44-2	D2536 100mg  (S)-(R)-PPFA CAS RN: 55650-58-3

D2774 100mg 1g (R)-(+)-MOP CAS RN: 145964-33-6	B1982 5g 25g Bis(diphenylphosphino)methane CAS RN: 2071-20-7	B1137 10g 25g 1,2-Bis(diphenylphosphino)ethane CAS RN: 1663-45-2	B1138 5g 25g 1,3-Bis(diphenylphosphino)propane CAS RN: 6737-42-4	B1246 5g 25g 1,4-Bis(diphenylphosphino)butane CAS RN: 7688-25-7
B1960 1g 1,5-Bis(diphenylphosphino)pentane CAS RN: 27721-02-4	B1959 1g 5g 1,6-Bis(diphenylphosphino)hexane CAS RN: 19845-69-3	B2867 5g 25g Bis[2-(diphenylphosphino)phenyl] Ether CAS RN: 16630-10-5	B2709 1g 5g 25g Xanthos CAS RN: 161265-03-8	B5239 200mg 1g 4,5-Bis(dicyclohexylphosphino)-9,9-dimethylxanthene CAS RN: 940934-47-4
B5957 100mg 500mg 2,2'-Biphenyldiylibis[bis(3,5-dimethylphenyl)phosphine] CAS RN: 325773-62-4	B2711 100mg 1g 1,1'-Bis(di-tert-butylphosphino)ferrocene CAS RN: 84680-95-5	B2710 100mg 1g 1,1'-Bis(diisopropylphosphino)ferrocene CAS RN: 97239-80-0	B2027 1g 5g 25g 1,1'-Bis(diphenylphosphino)ferrocene CAS RN: 12150-46-8	B2383 5g 25g (+/-)-BINAP CAS RN: 98327-87-8
B1406 1g 5g 25g (R)-(+)-BINAP CAS RN: 76189-55-4	B1405 1g 5g (S)-(−)-BINAP CAS RN: 76189-56-5			

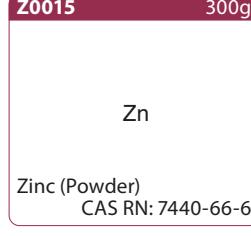
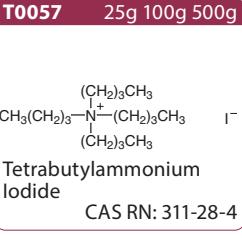
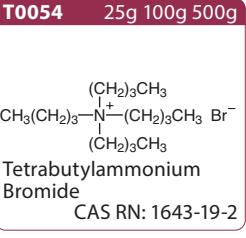
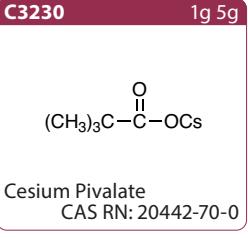
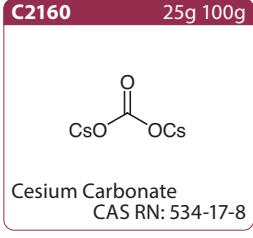
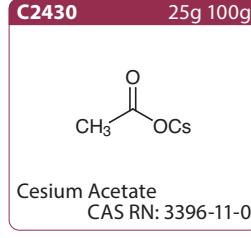
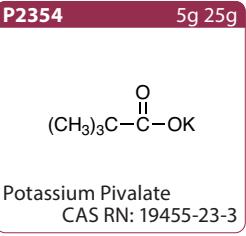
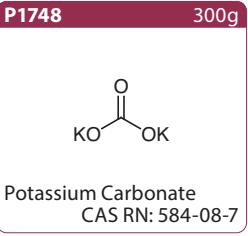
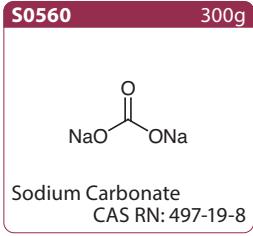
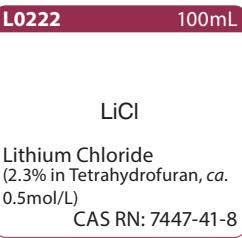
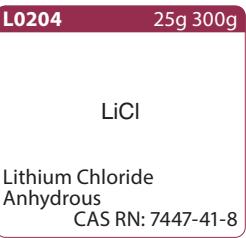
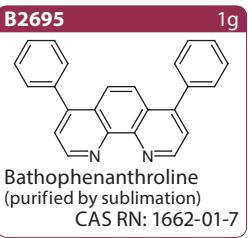
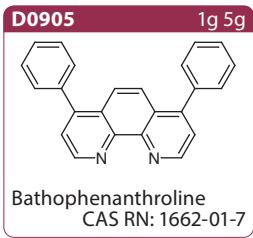
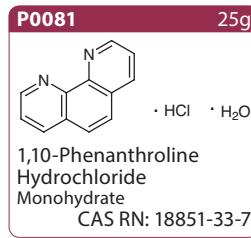
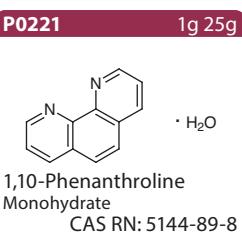
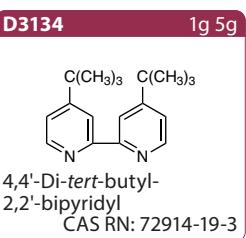
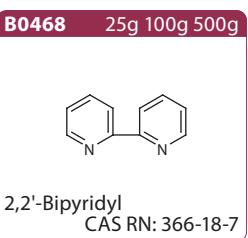
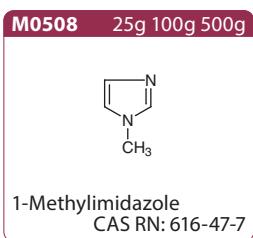
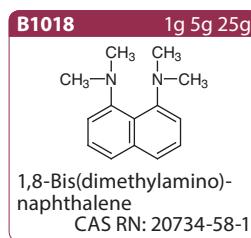
N-Heterocyclic Carbene Ligands

D5498 1g [iPr(H)][HCO ₃] CAS RN: 1372124-90-7	D5513 1g [iBu(H)][HCO ₃]	D3622 1g 5g LiPrim-HBF ₄ CAS RN: 137581-18-1	D3623 1g LiPr-HBF ₄ CAS RN: 286014-34-4	D3711 1g 5g 1,3-Di-tert-butylimidazolium Tetrafluoroborate CAS RN: 263163-17-3
D3850 1g 5g 25g 1,3-Dicyclohexylimidazolium Tetrafluoroborate CAS RN: 286014-38-8	D3620 500mg 1,3-Di(1-adamantyl)-imidazolium Tetrafluoroborate CAS RN: 1176202-63-3	D3472 1g 5g I3D-HBF ₄ CAS RN: 157197-53-0	M3036 5g 25g 1-Methyl-3-propylimidazolium Tetrafluoroborate CAS RN: 244193-48-4	D3882 1g 5g 1,3-Dicyclohexylimidazolium Chloride CAS RN: 181422-72-0
B3157 500mg 1g 5g 1,3-Bis(2,6-diisopropylphenyl)-imidazolium Chloride CAS RN: 258278-25-0	B3465 1g 5g 1,3-Bis(2,6-diisopropylphenyl)-imidazol-2-ylidene CAS RN: 244187-81-3	D3621 1g IAd-HBF ₄ CAS RN: 286014-42-4	B5603 1g IPr-CO ₂ CAS RN: 917604-39-8	D3611 500mg 5g 25g 1,3-Bis(2,6-diisopropylphenyl)-imidazolium Chloride CAS RN: 250285-32-6
B3506 1g IMes-CO ₂ CAS RN: 258278-28-3	D5401 1g IMes-CO ₂ CAS RN: 675877-56-2	D3446 1g 5g 1,3-Dimesitylimidazolium Chloride CAS RN: 141556-45-8		

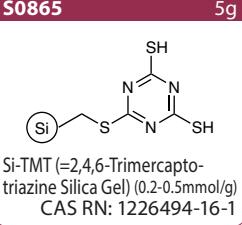
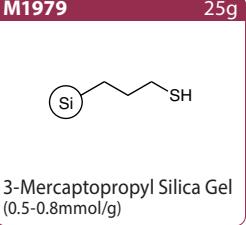
Suzuki-Miyaura Cross Coupling Reaction



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