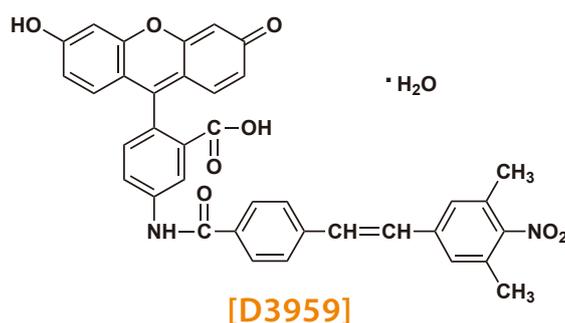


Reactive Oxygen Species (ROS) and Oxidative Stress Research Reagents

Nitric Oxide (NO) Generators



Nitric Oxide (NO) is produced from arginine and oxygen by nitric oxide synthase (NOS). NO plays an important role *in vivo*.

D3959 can release NO by two-photon excitation upon 720 nm pulse laser irradiation, which is a biocompatible long-wavelength light.

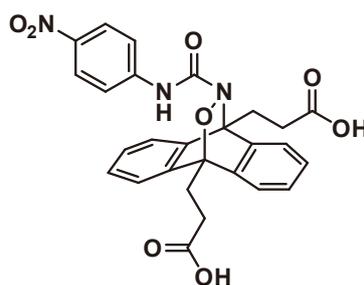
Reference N. Miyata et al., *J. Am. Chem. Soc.* **2009**, 131, 7488.

Flu-DNB Monohydrate
N-Nitrosodiphenylamine

Ruthenium(II) Nitrosyl Chloride Monohydrate

5mg [D3959]
25g / 500g [D0899]
1g [R0086]

Nitroxyl (HNO) Generator



Nitroxyl (HNO), a one-electron reduced form of NO, is a reactive oxygen species that has recently received much attention.

D3929 is a HNO-releasing agent regulated by photoirradiation (330-380 nm). And **D3929** is applicable to *in vitro* experiments due to its hydrophilicity.

Reference N. Miyata et al., *Chem. Commun.* **2010**, 46, 3788.

9,10-Dihydro-9,10-bis(2-carboxyethyl)-N-(4-nitrophenyl)-
10,9-(epoxyimino)anthracene-12-carboxamide

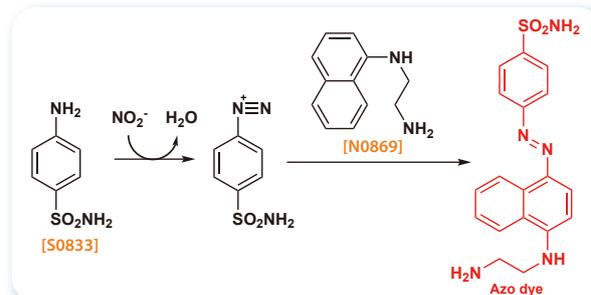
100mg [D3929]

Reactive Oxygen Species (ROS) and Oxidative Stress Research Reagents

ROS Detection Reagents

for Griess Method

Nitric Oxide (NO), oxidized rapidly by oxygen, is converted to NO₂ and NO₃. Griess method is well-known as a NO₂ detection method.



Sulfanilamide

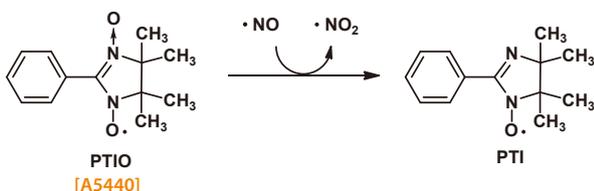
N-(1-Naphthyl)ethylenediamine Dihydrochloride

5g [S0833]

5g [N0869]

for ESR

PTIO, a spin trap agent that selectively oxidizes NO, converts NO to NO₂. The NO concentration can be determined spectroscopically from electron spin resonance (ESR) spectrum of PTIO and PTI.



PTIO	1g / 5g	[A5440]
DMPO	1g / 5g	[D2362]
DEPMPO	50mg	[D3068]
PBN	1g / 5g	[B1701]
3-Carboxy-PROXYL Free Radical	1g	[C1406]

for Chemiluminescent Method

Luminol	1g / 25g	[A5301]
MCLA	10mg	[A5309]
Lucigenin	1g / 5g	[B1203]
MMT	100mg / 1g	[B4339]

for Chromogenic Method

DPPP	100mg / 1g	[D2404]
Resazurin Sodium Salt	1g / 5g	[R0203]
Resorufin	1g / 5g	[R0012]
DPPH Free Radical	1g / 5g	[D4313]
Sulfanilic Acid Sodium Salt Hydrate	5g	[S0832]
2,3-Diaminonaphthalene	1g / 5g	[D1045]
1-Naphthylamine	25g / 100g	[N0052]
Sulfanilic Acid	25g / 500g	[S0120]
Nitro Blue Tetrazolium	100mg / 1g	[D0844]

Related Products

Trolox	1g / 5g	[H0726]
L-Ascorbic Acid	25g / 500g	[A0537]
Xanthine	25g	[X0004]
Hypoxanthine	5g / 25g	[H0311]

Nitric Oxide Synthase (NOS) Inhibitors

Aminoguanidine Sulfate Hydrate	25g / 500g	[A0309]	S-Methylisothiourea Sulfate	25g / 100g / 500g	[M0442]
L-Canavanine Sulfate Hydrate	100mg	[C0018]	Melatonin	1g / 5g	[M1105]
2,4-Diamino-6-hydroxypyrimidine	25g	[D1321]	6-Nitroindazole	25g / 250g	[N0399]
S-Ethylisothiourea Hydrobromide	25g / 100g	[E0182]	L-NNA	5g / 25g	[N0660]
Haloperidol	5g / 25g	[H0912]	L-NAME Hydrochloride	5g / 25g	[N0661]
			7-Nitroindazole	1g / 5g	[N0827]
			PDTC	25g / 250g	[P0644]

For further information please refer to our website at www.TCIchemicals.com.



Ordering and Customer Service

TCI AMERICA

Tel : 800-423-8616 / 503-283-1681
Fax : 888-520-1075 / 503-283-1987
E-mail : Sales-US@TCIchemicals.com

TCI EUROPE N.V.

Tel : +32 (0)3 735 07 00
Fax : +32 (0)3 735 07 01
E-mail : Sales-EU@TCIchemicals.com

TCI Deutschland GmbH

Tel : +49 (0)6196 64053-00
Fax : +49 (0)6196 64053-01
E-mail : Sales-DE@TCIchemicals.com

Tokyo Chemical Industry UK Ltd.

Tel : +44 (0)1865 784560
Fax : +44 (0)1865 784561
E-mail : Sales-UK@TCIchemicals.com

TCI Chemicals (India) Pvt. Ltd.

Tel : 1800 425 7889 / 044-2262 0909
Fax : 044-2262 8902
E-mail : Sales-IN@TCIchemicals.com

梯希爱(上海)化成工业发展有限公司

Tel : 800-988-0390 / 021-67121386
Fax : 021-6712-1385
E-mail : Sales-CN@TCIchemicals.com

TOKYO CHEMICAL INDUSTRY CO., LTD.

Tel : +81 (0)3-5640-8878
Fax : +81 (0)3-5640-8902
E-mail : globalbusiness@TCIchemicals.com

Availability, price or specification of the listed products are subject to change without prior notice. Reproduction forbidden without the prior written consent of Tokyo Chemical Industry Co., Ltd.