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DATASHEET

Ro 25-6981 maleate

Product overview

Name	Ro 25-6981 maleate
Cat No	HB0554
Biological action	NAM
Purity	>98%
Description	Selective negative allosteric modulator of GluN2B (NR2B) containing NMDARs

Images



Biological Data

Biological description	Ro 25-6981 maleate is a selective negative allosteric modulator (NAM) of GluN2B (NR2B) containing NMDARs.
	Ro 25-6981 maleate exhibits >5000-fold selectivity at GluN1C-GluN2B over GluN1C-GluN2A (IC ₅₀ values are 9 nM and 52 μM). Ro 25-6981 maleate shows neuroprotective properties.

Solubility & Handling

Storage instructions	Room temperature (desiccate)
Solubility overview	Soluble in water (10mM, gentle warming) and in DMSO (100mM)
Handling	Hydroscopic solid, contact with air may cause material to become sticky. Product performance should not be affected but we recommend storing the material in a sealed jar.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(αR,βS)-α-(4-Hydroxyphenyl)-β-methyl-4-(phenylmethyl)-1-piperidinepropanol maleate
Molecular Weight	455.55
Chemical structure	
Molecular Formula	C ₂₂ H ₂₉ NO ₂ .C ₄ H ₄ O ₄

CAS Number	1312991-76-6
PubChem identifier	53250677
SMILES	<chem>C[C@@H](CN1CCC(CC1)CC2=CC=CC=C2)[C@H](C3=CC=C(C=C3)O)O.C(=C\C(=O)O)\C(=O)O</chem>
Source	Synthetic
InChi	InChI=1S/C22H29NO2.C4H4O4/c1-17(22(25)20-7-9-21(24)10-8-20)16-23-13-11-19(12-14-23)15-18-5-3-2-4-6-18;5-3(6)1-2-4(7)8/h2-10,17,19,22,24-25H,11-16H2,1H3;1-2H,(H,5,6)(H,7,8)/b;2-1-/t17-,22+;/m0./s1
InChiKey	FYJZEHCQSUBZDY-SEELMCCHSA-N
MDL number	MFCD06798375
Appearance	White solid

References

Ro 25-6981, a highly potent and selective blocker of NMDA receptors containing the NR2B subunit. Characterization in vitro.

Fischer G *et al* (1997) J Pharmacol Exp Ther 283(3)

PubMedID [9400004](#)

The NR2B-selective NMDA receptor antagonist Ro 25-6981 potentiates the effect of nicotine on locomotor activity and DA release in the nucleus

Kosowski AR *et al* (2004) J Pharmacol Exp Ther 311(2)

PubMedID [15256539](#)

Pharmacological characterization of interactions of RO 25-6981 with the NR2B (epsilon2) subunit.

Lynch DR *et al* (2001) Eur J Pharmacol 416(3)

PubMedID [11290368](#)