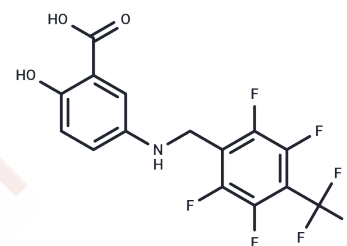


Nelonemdaz

Chemical Properties

CAS No. :	640290-67-1
Formula:	C15H8F7NO3
Molecular Weight:	383.22
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Nelonemdaz (Neu2000) is an NMDA receptor antagonist with antioxidant activity and neuroprotective activity used in the study of cerebral infarction reperfusion injury and acute ischemic stroke.
Targets(IC50)	Antioxidant,NMDAR,iGluR
In vitro	Nelonemdaz (0.19-12.5 μ M) dose-dependently reduces the amount of reactive oxygen species/nitrogen species (ROS/RNS) formation induced by Antimycin A and inhibits the formation of malondialdehyde (MDA)[3].
In vivo	In male Sprague-Dawley rats weighing 260 to 300 g (subjected to the clip occlusion model), Nelonemdaz (0.5-20 mg/kg; intravenous administration 5 minutes after reperfusion) exhibited significant neuroprotective effects[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (260.95 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6095 mL	13.0473 mL	26.0947 mL
5 mM	0.5219 mL	2.6095 mL	5.2189 mL
10 mM	0.2609 mL	1.3047 mL	2.6095 mL
50 mM	0.0522 mL	0.2609 mL	0.5219 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Gwag BJ, et al. Marked prevention of ischemic brain injury by Neu2000, an NMDA antagonist and antioxidant derived from aspirin and sulfasalazine. *J Cereb Blood Flow Metab.* 2007 Jun;27(6):1142-51.

Sung IC, et al. Neu2000, an NR2B-selective, Moderate NMDA Receptor Antagonist and Potent Spin Trapping Molecule for Stroke. *Drug News Perspect.* 2010 Nov; 23(9): 549-56.

Nishant PV, et al. Antioxidant Properties of Neu2000 on Mitochondrial Free Radicals and Oxidative Damage. *Toxicol In Vitro.* 2013 Mar; 27(2): 788-97.

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