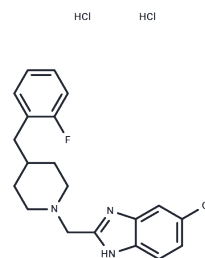


NMDA-IN-1

Chemical Properties

CAS No. :	700878-19-9
Formula:	C ₂₀ H ₂₃ ClFN ₃ O
Molecular Weight:	375.87
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	NMDA-IN-1 is a potent and NR2B-selective antagonist of NMDA, with an NMDA K_i of 0.85 nM and an NR2B Ca^{2+} influx IC_{50} of 9.7 nM.
Targets(IC_{50})	NMDAR, iGluR

Solubility Information

Solubility	DMSO: 12 mg/mL (31.93 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.66 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6605 mL	13.3025 mL	26.6049 mL
5 mM	0.5321 mL	2.6605 mL	5.321 mL
10 mM	0.266 mL	1.3302 mL	2.6605 mL
50 mM	0.0532 mL	0.266 mL	0.5321 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

McCauley JA, et al. NR2B-selective N-methyl-D-aspartate antagonists: synthesis and evaluation of 5-substituted benzimidazoles. J Med Chem. 2004 Apr 8;47(8):2089-96.

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