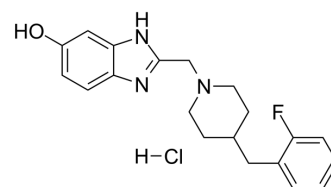


NMDA-IN-1

Cat. No.:	HY-12962
CAS No.:	700878-19-9
Molecular Formula:	C ₂₀ H ₂₃ ClFN ₃ O
Molecular Weight:	375.87
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (33.26 mM); ultrasonic and warming and heat to 60°C																					
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Preparing Stock Solutions</td> <td>1 mM</td> <td>2.6605 mL</td> <td>13.3025 mL</td> <td>26.6049 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5321 mL</td> <td>2.6605 mL</td> <td>5.3210 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2660 mL</td> <td>1.3302 mL</td> <td>2.6605 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	Preparing Stock Solutions	1 mM	2.6605 mL	13.3025 mL	26.6049 mL	5 mM	0.5321 mL	2.6605 mL	5.3210 mL	10 mM	0.2660 mL	1.3302 mL	2.6605 mL
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	Please refer to the solubility information to select the appropriate solvent.																					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (3.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (3.33 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (3.33 mM); Clear solution 																					

BIOLOGICAL ACTIVITY

Description	NMDA-IN-1 is a potent and NR2B-selective NMDA antagonist with Ki of 0.85 nM; NR2B Ca ²⁺ influx IC ₅₀ is 9.7 nM; no activities on NR2A, NR2C, NR2D, hERG-channel and α1-adrenergic receptor.
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REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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