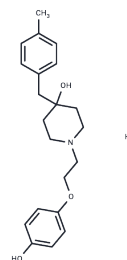


Co 101244 hydrochloride

Chemical Properties

CAS No. :	193356-17-1
Formula:	C ₂₁ H ₂₈ ClNO ₃
Molecular Weight:	377.9
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	Co 101244 hydrochloride (4-Piperidinol, 1-[2-(4-hydroxyphenoxy)ethyl]-4-[(4-Methylphenyl)Methyl]-,hydrochloride) is an NR2B-containing NMDA receptor antagonist.
Targets(IC50)	NMDAR,iGluR
In vitro	Co 101244 enhances neuroprotection and reduces NMDA-evoked Ca ²⁺ elevations effectively [1].
In vivo	Administration of 1 mg/kg s.c. Co 101244 displayed antidyskinetic effects with the reduction of 67% while sparing levodopa motor benefit[1].

Solubility Information

Solubility	H ₂ O: < 35 mg/mL (92.62 mM),Sonication is recommended. DMSO: 50 mg/mL (132.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.29 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	2.6462 mL	13.231 mL	26.462 mL
5 mM	0.5292 mL	2.6462 mL	5.2924 mL
10 mM	0.2646 mL	1.3231 mL	2.6462 mL
50 mM	0.0529 mL	0.2646 mL	0.5292 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

Ruslan I Stanika, et al. Coupling diverse routes of calcium entry to mitochondrial dysfunction and glutamate excitotoxicity. Proc Natl Acad Sci U S A. 2009 Jun 16;106(24):9854-9.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481