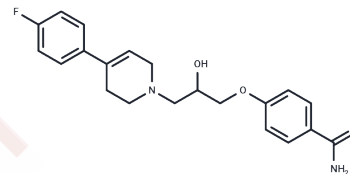


Ro 8-4304

Chemical Properties

CAS No. : 195988-65-9
 Formula: C₂₁H₂₃FN₂O₃
 Molecular Weight: 370.42
 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	Ro 8-4304 Hydrochloride is an antagonist of NMDA receptor with IC ₅₀ of 0.4 μM
Targets(IC ₅₀)	NMDAR,iGluR
In vitro	Ro 8-4304 is a voltage-independent, non-competitive antagonist of NMDA receptors in rat cultured cortical neurones and exhibits a state-dependent mode of action similar to that described for ifenprodil. The apparent affinity of Ro 8-4304 for the NMDA receptor increased in an NMDA concentration-dependent manner so that Ro 8-4304 inhibited 10 and 100 microM NMDA responses with IC ₅₀ s of 2.3 and 0.36 microM, respectively. Currents elicited by 1 microM NMDA were slightly potentiated in the presence of 10 microM Ro 8-4304, and Ro 8-4304 binding slowed the rate of glutamate dissociation from NMDA receptors

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6996 mL	13.4982 mL	26.9964 mL
5 mM	0.5399 mL	2.6996 mL	5.3993 mL
10 mM	0.270 mL	1.3498 mL	2.6996 mL
50 mM	0.054 mL	0.270 mL	0.5399 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

Kew J N C , Trube G , Kemp J A . State-dependent NMDA receptor antagonism by Ro 8-4304, a novel NR2B selective, non-competitive, voltage-independent antagonist[J]. *British Journal of Pharmacology*, 1998, 123(3):463-472.

Huang S , Balgi A , Pan Y , et al. Identification of Methylosome Components as Negative Regulators of Plant Immunity Using Chemical Genetics[J]. 2016, 009(012):1620-1633.

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