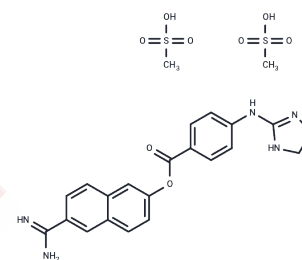


Sepimostat dimethanesulfonate

Chemical Properties

CAS No. : 103926-82-5
 Formula: C₂₃H₂₇N₅O₈S₂
 Molecular Weight: 565.62
 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	Sepimostat dimethanesulfonate (FUT-187), a chemical compound, demonstrates neuroprotective properties by antagonizing NR2B N-methyl-D-aspartate receptors at the NR2B subunit's Ifenprodil-binding site. This compound effectively inhibits Ifenprodil binding, exhibiting a K_i value of 27.7 μ M[1].
Targets(IC50)	Others,iGluR
In vivo	Sepimostat (1 to 100 nmol/eye, intravitreal injection) demonstrates a significant neuroprotective effect in male Sprague Dawley rats (weighing 150-300 g)[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.768 mL	8.8399 mL	17.6797 mL
5 mM	0.3536 mL	1.768 mL	3.5359 mL
10 mM	0.1768 mL	0.884 mL	1.768 mL
50 mM	0.0354 mL	0.1768 mL	0.3536 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

Masahiro Fuwa, et al. Nafamostat and Sepimostat Identified as Novel Neuroprotective Agents via NR2B N-methyl-D-aspartate Receptor Antagonism Using a Rat Retinal Excitotoxicity Model. Sci Rep. 2019 Dec 31;9(1):20409.

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