

CAY10608

Chemical Properties

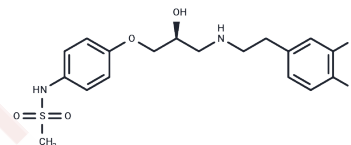
CAS No. : 457897-92-6

Formula: C₁₈H₂₂Cl₂N₂O₄S

Molecular Weight: 433.35

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	N-Methyl-D-aspartate (NMDA) receptors are Ca ²⁺ permeable ligand-gated channels of the central nervous system that are activated after binding of the co-agonists glutamate and glycine. CAY10608 is a propanolamine that potently, selectively, and non-competitively antagonizes the NR2B subunit of NMDA receptors (IC ₅₀ = 50 nM). It does not inhibit NR1, NR2A, NR2C, and NR2D subunits and has no significant effects on α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) or kainate receptors. CAY10608 is neuroprotective, since it prevents NMDA-triggered release of lactate dehydrogenase from cultured cortical neurons. Also, CAY10608, when administered intraperitoneally, reduces brain infarct volume resulting from transient ischemia via carotid artery occlusion.
Targets(IC ₅₀)	Others,iGluR,Potassium Channel

Solubility Information

Solubility	DMF: 12.5 mg/mL (28.85 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:10): 0.1 mg/mL (0.23 mM),Sonication is recommended. DMSO: 14 mg/mL (32.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3076 mL	11.538 mL	23.076 mL
5 mM	0.4615 mL	2.3076 mL	4.6152 mL
10 mM	0.2308 mL	1.1538 mL	2.3076 mL
50 mM	0.0462 mL	0.2308 mL	0.4615 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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