

Product Data Sheet

Product Name: CAY10608

Cat. No.: GC43182

Chemical Properties

Cas. No. 457897-92-6

SMILES C1C1=C(Cl)C=CC(CCNC[C@H](O)COC2=CC=C(NS(C)(=O)=O)C=C2)=C1

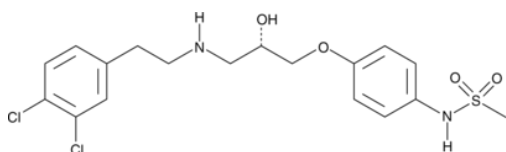
Formula C₁₈H₂₂Cl₂N₂O₄S M.Wt 433.4

Solubility DMF: 12.5 mg/ml, DMSO: 14 mg/ml, DMSO:PBS (pH 7.2) (1:10): 0.1 mg/ml
Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

N-Methyl-D-aspartate (NMDA) receptors are Ca²⁺ 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 (IC₅₀ = 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.

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

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