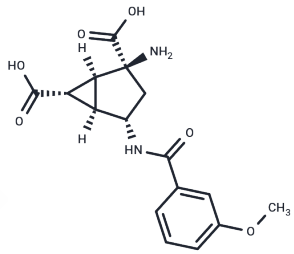
# Data Sheet (Cat.No.T15807)

LY2794193

## Chemical Properties



| | |
|---|---|
| CAS No. : | 2173037-97-1 |
| Formula: | C16H18N2O6 |
| Molecular Weight: | 334.32 |
| Appearance: | no data available |
| Storage: | store at low temperature<br>Powder: -20°C for 3 years \| In solvent: -80°C for 1 year |

## Biological Description

| | |
|---|---|
| Description | LY2794193, a potent and selective mGlu3 (metabotropic glutamate 3) receptor agonist, Ki=0.927 nM, EC50=0.47 nM, reduces akathisia seizures and depressive-like behaviors and increases GAT1, GLAST and GLT-1 protein levels in rats. |
| Targets(IC50) | GluR |
| In vitro | When its agonist responses were examined in cells co-expressing a promiscuous G protein (Gαq), LY2794193 exhibited agonist activity against both hmGlu3 (EC50 value of 11.6 nM) and hmGlu2 (EC50 value of 277 nM).[1] |
| In vivo | **Methods**: Two doses of LY2794193 (0.1, 0.3, and 1 mg/kg, sc) and LY2794193 (1, 3, and 10 mg/kg, sc) were administered to rats; the first study employed dose levels, while the second evaluated higher doses; in each study, plasma and cerebrospinal fluid (CSF) levels were determined 1 h after LY2794193 administration.<br>**Results**: Plasma and CSF levels of LY2794193 were observed at all dose levels, and a linear increase in each compartment with increasing dose was observed. The fraction of LY2794193 partitioning into the CSF was both low and highly consistent across dose levels, with a CSF to plasma ratio of 1% calculated over a 100-fold concentration range. [1] |

## Solubility Information

| | |
|---|---|
| Solubility | H2O: 1 mg/mL (2.99 mM),when pH is adjusted to 14 with NaOH.<br>DMSO: 180 mg/mL (538.41 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.9911 mL | 14.9557 mL | 29.9115 mL |
| 5 mM | 0.5982 mL | 2.9911 mL | 5.9823 mL |
| 10 mM | 0.2991 mL | 1.4956 mL | 2.9911 mL |
| 50 mM | 0.0598 mL | 0.2991 mL | 0.5982 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.

Reference

Monn JA, et al. Synthesis and Pharmacological Characterization of C4β-Amide-Substituted 2-Aminobicyclo[3.1.0] hexane-2,6-dicarboxylates. Identification of (1 S,2 S,4 S,5 R,6 S)-2-Amino-4-[(3-methoxybenzoyl)amino]bicyclo [3.1.0]hexane-2,6-dicarboxylic Acid (LY2794193), a Highly Potent and Selective mGlu3 Receptor Agonist. J Med Chem. 2018 Mar 22;61(6):2303-2328.