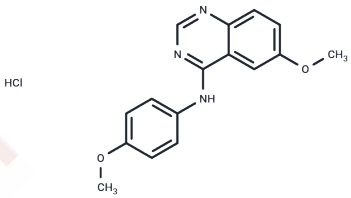
Data Sheet (Cat.No.T22954)

TargetMol

LY 456236 hydrochloride

Chemical Properties



CAS No. : 338736-46-2

Formula: C16H16ClN3O2

Molecular Weight: 317.77

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	LY 456236 hydrochloride (MPMQ hydrochloride) is an mGlu1 receptor antagonist with an ic50 value of 143 nM. LY456236 has selective, non-competitive and oral activity, and can inhibit the hydrolysis of inositol phosphate with IC50 of 0.145 μM. LY 456236 hydrochloride inhibited EGFR with IC50 of 0.91 μM.
Targets(IC50)	EGFR,GluR
In vitro	LY456236 (2 μM; 30 min) reduces the proliferation of DHPG-stimulated OCCM-30 cells.[1]
In vivo	LY456236 exhibits anticonvulsant effects in mice (3-100 mg/kg; i.p.; once) and rats (10-60 mg/kg; oral; once).[2]

Solubility Information

Solubility	DMSO: 225 mg/mL (708.06 mM),Sonication and heating to 60℃ are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1469 mL	15.7347 mL	31.4693 mL
5 mM	0.6294 mL	3.1469 mL	6.2939 mL
10 mM	0.3147 mL	1.5735 mL	3.1469 mL
50 mM	0.0629 mL	0.3147 mL	0.6294 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

Kanaya S, et al. Metabotropic glutamate receptor 1 promotes cementoblast proliferation via MAP kinase signaling pathways. Connect Tissue Res. 2016;57(5):417-426.
Shannon HE,et al. Anticonvulsant effects of LY456236, a selective mGlu1 receptor antagonist. Neuropharmacology. 2005;49 Suppl 1:188-195.
Ravikumar B,et al. Chemogenomic Analysis of the Druggable Kinome and Its Application to Repositioning and Lead Identification Studies. Cell Chem Biol. 2019;26(11):1608-1622.e6.

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