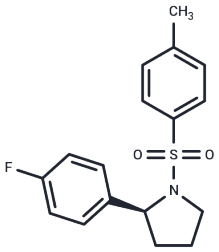
Data Sheet (Cat.No.T3478)

TargetMol

Ro 67-7476

Chemical Properties



CAS No. : 298690-60-5

Formula: C17H18FNO2S

Molecular Weight: 319.39

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	Ro 67-7476 is a positive allosteric modulator of mGluR1, which can enhance the calcium release induced by glutamate in HEK293 cells expressing rat mGluR1a. The EC50 is 60.1 nM. It is a P-ERK1/2 agonist, and can activate ERK1/2 phosphorylation without the addition of exogenous glutamate (EC50 = 163.3 nM).
Targets(IC50)	GluR

Solubility Information

Solubility	DMSO: 50 mg/mL (156.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.131 mL	15.6548 mL	31.3097 mL
5 mM	0.6262 mL	3.131 mL	6.2619 mL
10 mM	0.3131 mL	1.5655 mL	3.131 mL
50 mM	0.0626 mL	0.3131 mL	0.6262 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

Hemstapat K et al. A novel class of positive allosteric modulators of metabotropic glutamate receptor subtype 1 interact with a site distinct from that of negative allosteric modulators. Mol Pharmacol. 2006 Aug, 70(2), 616-26

Wang J, Wang J, Lu C, et al.ISL1-overexpressing BMSCs attenuate renal ischemia-reperfusion injury by suppressing apoptosis and oxidative stress through the paracrine action.Cellular and Molecular Life Sciences.2024, 81(1): 312.

Knoflach F et al. Positive allosteric modulators of metabotropic glutamate 1 receptor: characterization, mechanism of action, and binding site. Proc

Douglas J Sheffler, et al. Allosteric potentiators of metabotropic glutamate receptor subtype 1a differentially modulate independent signaling pathways in baby hamster kidney cells. Neuropharmacology. 2008 Sep;55(4): 419-27.

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