EP2 receptor antagonist-2

Cat. No.: HY-153129

CAS No.: 615273-95-5

Molecular Formula: $C_{15}H_{14}F_3N_3O$

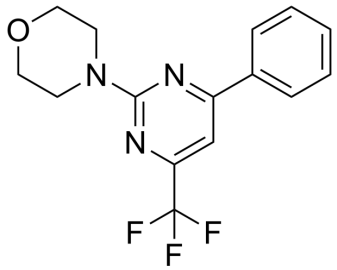
Molecular Weight: 309.29

Target: Prostaglandin Receptor

Pathway: GPCR/G Protein

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (404.15 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2332 mL	16.1661 mL	32.3321 mL
	5 mM	0.6466 mL	3.2332 mL	6.4664 mL
	10 mM	0.3233 mL	1.6166 mL	3.2332 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

EP2 receptor antagonist-2 (CID891729) is an antagonist of EP2 receptor. EP2 receptor antagonist-2 inhibits the EP2 receptor activation induced by PGE2. EP2 receptor antagonist-2 also suppresses lactate dehydrogenase (LDH) release induced by N-methyl-D-aspartate (NMDA)[1].

IC_{50} & Target

EP

In Vitro

EP2 receptor antagonist-2 shows cytotoxicity against C6G cells with an CC_{50} value of 575 μM[1].

EP2 receptor antagonist-2 (20 μM; 30 min) decreases NMDA (30 μM)-induced LDH release in rat primary hippocampal neurons (DIV14)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jiang J, et al. Discovery of 2-Piperidinyl Phenyl Benzamides and Trisubstituted Pyrimidines as Positive Allosteric Modulators of the Prostaglandin Receptor EP2. ACS Chem Neurosci. 2018 Apr 18;9(4):699-707.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA