PAC1R antagonist 1

Cat. No.: HY-147557

CAS No.: 2305204-24-2

Molecular Formula: $C_{17}H_{17}ClN_6O_2$

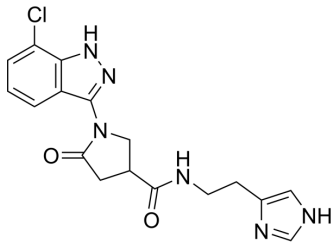
Molecular Weight: 372.81

Target: PACAP Receptor

Pathway: GPCR/G Protein

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (89.40 mM; ultrasonic and warming and heat to 160°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.6823 mL	13.4117 mL	26.8233 mL
	5 mM	0.5365 mL	2.6823 mL	5.3647 mL
	10 mM	0.2682 mL	1.3412 mL	2.6823 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (6.71 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (6.71 mM); Clear solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (6.71 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

PAC1R antagonist 1 (compound 3d) is a potent and orally active antagonist of PAC1 receptor. PAC1R antagonist 1 can inhibit pituitary adenylate cyclase-activating polypeptide (PACAP)- and nerve injury-induced allodynia[1].

REFERENCES

[1]. Takasaki I, et, al. Synthesis of a novel and potent small-molecule antagonist of PAC1 receptor for the treatment of neuropathic pain. Eur J Med Chem. 2020 Jan 15;186:111902.

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