SHIP2-IN-1

Cat. No.: HY-112700

CAS No.: 2252247-80-4

Molecular Formula: $C_{17}H_{13}Cl_2FN_4O$

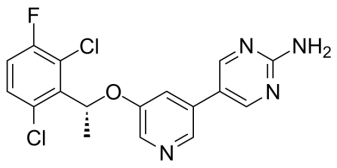
Molecular Weight: 379.22

Target: Phosphatase

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (263.70 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.6370 mL	13.1850 mL	26.3699 mL
5 mM	0.5274 mL	2.6370 mL	5.2740 mL
10 mM	0.2637 mL	1.3185 mL	2.6370 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 (6.59 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.59 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SHIP2-IN-1 is a potent SHIP2 inhibitor, inhibits SHIP2 activity, with an IC_{50} of 2 μM. SHIP2-IN-1 blocks GSK3β activation by phosphorylation at the Ser9 residue. SHIP2-IN-1 is used in the research of Alzheimer's disease[1].

IC_{50} & Target

IC50: 2 μM (SHIP2)[1]

In Vitro

SHIP2-IN-1 (Compound 43; 10 μM) significantly inhibits PI(3,4)P2 production in HT22 cells[1].

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

REFERENCES

[1]. Lim JW, et al. Identification of crizotinib derivatives as potent SHIP2 inhibitors for the treatment of Alzheimer's disease. Eur J Med Chem. 2018 Sep 5;157:405-422.

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