SKI-I

Cat. No.: HY-115735

CAS No.: 306301-68-8

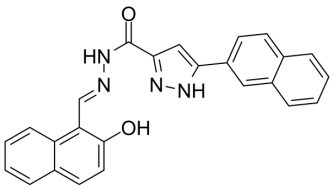
Molecular Formula: $C_{25}H_{18}N_4O_2$

Molecular Weight: 406.44

Target: SphK; Apoptosis

Pathway: Immunology/Inflammation; Apoptosis

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (246.04 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4604 mL	12.3019 mL	24.6039 mL
	5 mM	0.4921 mL	2.4604 mL	4.9208 mL
	10 mM	0.2460 mL	1.2302 mL	2.4604 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: ≥ 2.5 mg/mL (6.15 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SKI-I is a potent and selective inhibitor of human sphingosine kinase (SK), with an IC_{50} of 1.2 μM for ST-hSK. SKI-I also inhibits hERK2 (IC_{50}=11 μM). SKI-I induces apoptosis in tumor cell lines[1][2].

IC_{50} & Target

IC50: 1.2 μM (ST-hSK); 11 μM (hERK2)[1]

In Vitro

SKI-I (Compound I; 5 μg/mL) inhibits SK activity by 99%[1].
SKI-I (10 μM; 24 h) induces the apoptosis of T24 cells[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. French KJ, et, al. Discovery and evaluation of inhibitors of human sphingosine kinase. Cancer Res. 2003 Sep 15;63(18):5962-9.

[2]. Sharma AK, et, al. Synthesis and bioactivity of sphingosine kinase inhibitors and their novel aspirinyl conjugated analogs. Eur J Med Chem. 2010 Sep;45(9):4149-56.

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