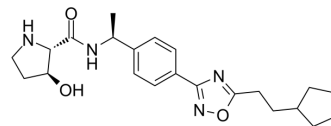


SK1-IN-1

Cat. No.:	HY-101805		
CAS No.:	1218816-71-7		
Molecular Formula:	C ₂₂ H ₃₀ N ₄ O ₃		
Molecular Weight:	398.5		
Target:	SphK		
Pathway:	Immunology/Inflammation		
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 (250.94 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5094 mL	12.5471 mL	25.0941 mL
	5 mM	0.5019 mL	2.5094 mL	5.0188 mL
	10 mM	0.2509 mL	1.2547 mL	2.5094 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (6.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (6.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (6.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SK1-IN-1 is a potent sphingosine kinase 1 (SPHK1) inhibitor with an IC₅₀ of 58 nM.

IC₅₀ & Target

IC₅₀: 58 nM (SPHK1)^[1]

In Vivo

SK1-IN-1 demonstrates significant improvement in the intrinsic clearance, particularly against human liver microsomes. SK1-IN-1 is selected for rat PK studies and demonstrates modest in oral bioavailability with acceptable half-lives in blood

circulation^[1].

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

CUSTOMER VALIDATION

- Cell Res. 2022 Feb 1.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Xiang Y, et al. Discovery of novel sphingosine kinase-1 inhibitors. Part 2. Bioorg Med Chem Lett. 2010 Aug 1;20(15):4550-4.

Caution: Product has not been fully validated for medical applications. For research use only.

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