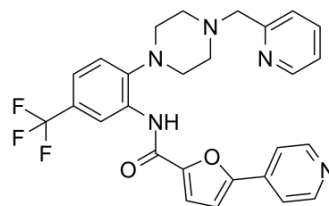


SPHINX31

Cat. No.:	HY-117661		
CAS No.:	1818389-84-2		
Molecular Formula:	C ₂₇ H ₂₄ F ₃ N ₅ O ₂		
Molecular Weight:	507.51		
Target:	SRPK		
Pathway:	Cell Cycle/DNA Damage		
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 : 17.33 mg/mL (34.15 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9704 mL	9.8520 mL	19.7040 mL
	5 mM	0.3941 mL	1.9704 mL	3.9408 mL
	10 mM	0.1970 mL	0.9852 mL	1.9704 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 mg/mL (3.94 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2 mg/mL (3.94 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SPHINX31 is a potent and selective inhibitor of serine/arginine-rich protein kinase 1 (SRPK1), with an IC₅₀ of 5.9 nM. SPHINX31 inhibits phosphorylation of serine/arginine-rich splicing factor 1 (SRSF1). SPHINX31 is a potential topical therapeutic for neovascular eye disease^[1].

IC₅₀ & Target

IC₅₀: 5.9 nM (SRPK1)^[1].

REFERENCES

[1]. Batson J, et al. Development of Potent, Selective SRPK1 Inhibitors as Potential Topical Therapeutics for Neovascular Eye Disease. ACS Chem Biol. 2017 Mar 17;12(3):825-832.

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

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