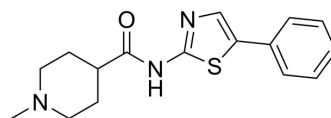


DS12881479

Cat. No.:	HY-148105		
CAS No.:	2373065-59-7		
Molecular Formula:	C ₁₆ H ₁₉ N ₃ OS		
Molecular Weight:	301.41		
Target:	MNK		
Pathway:	MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (829.43 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3177 mL	16.5887 mL	33.1774 mL
	5 mM	0.6635 mL	3.3177 mL	6.6355 mL
	10 mM	0.3318 mL	1.6589 mL	3.3177 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: ≥ 2.08 mg/mL (6.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (6.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

DS12881479 is a potent and selective Mnk1 inhibitor with an IC₅₀ value of 21 nM. DS12881479 can be used in cancer research [1].

REFERENCES

- [1]. Yumi Matsui, et al. A novel inhibitor stabilizes the inactive conformation of MAPK-interacting kinase 1. Acta Crystallogr F Struct Biol Commun. 2018 Mar 1;74(Pt 3):156-160.

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

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