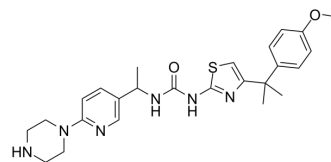


ALPK1-IN-1

Cat. No.:	HY-147561		
CAS No.:	2765457-72-3		
Molecular Formula:	C ₂₅ H ₃₂ N ₆ O ₂ S		
Molecular Weight:	480.63		
Target:	NF-κB		
Pathway:	NF-κB		
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 : 100 mg/mL (208.06 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.0806 mL	10.4030 mL	20.8060 mL
5 mM	0.4161 mL	2.0806 mL	4.1612 mL
10 mM	0.2081 mL	1.0403 mL	2.0806 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 (5.20 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (5.20 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (5.20 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

ALPK1-IN-1 (Compound A001) is a potent inhibitor of alpha-kinase 1 (ALPK1). ALPK1 is an intracytoplasmic serine threonine protein kinase that plays an important role in activating the innate immune response to bacteria via TRAF-interacting protein with forkhead-associated domain (TIFA) dependent proinflammatory NF-κB signaling^[1].

REFERENCES

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

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