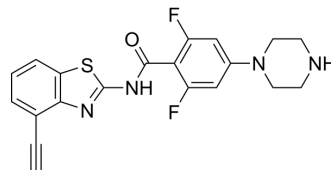


ALPK1-IN-3

Cat. No.:	HY-156519		
CAS No.:	2765633-73-4		
Molecular Formula:	C ₂₀ H ₁₆ F ₂ N ₄ OS		
Molecular Weight:	398.43		
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 (250.99 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.5099 mL	12.5493 mL	25.0985 mL
	5 mM	0.5020 mL	2.5099 mL	5.0197 mL
	10 mM	0.2510 mL	1.2549 mL	2.5099 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; Need ultrasonic
- 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; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (6.27 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

ALPK1-IN-3 is an inhibitor of ALPK1 extracted from patent WO2022063153A1 compound T007. ALPK1-IN-3 inhibits kidney proinflammatory gene expression and improves the survival rate of the animals in sepsis induced acute kidney injury animal model^[1]. ALPK1-IN-3 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

REFERENCES

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

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