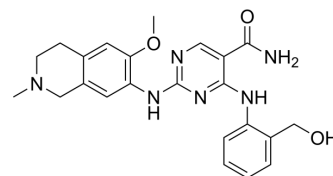


HPK1-IN-4

Cat. No.:	HY-138569		
CAS No.:	2739844-28-9		
Molecular Formula:	C ₂₃ H ₂₆ N ₆ O ₃		
Molecular Weight:	434.49		
Target:	MAP4K		
Pathway:	MAPK/ERK Pathway		
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 (230.15 mM; ultrasonic and adjust pH to 4 with HCl)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.3015 mL	11.5077 mL	23.0155 mL
	5 mM		0.4603 mL	2.3015 mL	4.6031 mL
	10 mM		0.2302 mL	1.1508 mL	2.3015 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.08 mg/mL (4.79 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 0.83 mg/mL (1.91 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 0.83 mg/mL (1.91 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

HPK1-IN-4 (comp 22) is a HPK1 (MAPK41) inhibitor (IC₅₀ of 0.061 nM) as preclinical immunoresearch tool compound^[1].

IC₅₀ & Target

IC₅₀: 0.061 nM (HPK1)^[1].

REFERENCES

[1]. Brandon A Vara, et al. Discovery of Diaminopyrimidine Carboxamide HPK1 Inhibitors as Preclinical Immunotherapy Tool Compounds. ACS Med Chem Lett. 2021 Mar 19;12(4):653-661.

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

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