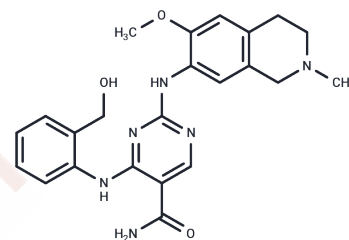


HPK1-IN-4

Chemical Properties

CAS No. : 2739844-28-9
 Formula: C₂₃H₂₆N₆O₃
 Molecular Weight: 434.49
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	HPK1-IN-4 is an HPK1 (MAPK41) inhibitor with an IC ₅₀ of 0.061 nM. HPK1-IN-4 is often used as a preclinical immunotherapy tool compound.
Targets(IC ₅₀)	MAPK

Solubility Information

Solubility	DMSO: 90 mg/mL (207.14 mM), when pH is adjusted to 4 with HCl. Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (2.3 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.046 mL	0.2302 mL	0.4603 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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