

HPK1-IN-7

Chemical Properties

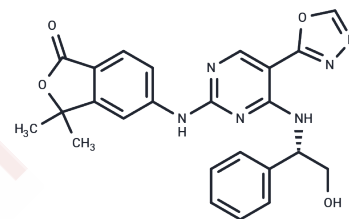
CAS No. : 2320462-65-3

Formula: C₂₄H₂₂N₆O₄

Molecular Weight: 458.47

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-7 is an orally active HPK1 inhibitor. It shows selectivity against IRAK4 (59 nM) and GLK (140 nM).
Targets(IC50)	MAPK

Solubility Information

Solubility	DMSO: 125 mg/mL (272.65 mM), 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: 4 mg/mL (8.72 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	2.1812 mL	10.9058 mL	21.8117 mL
5 mM	0.4362 mL	2.1812 mL	4.3623 mL
10 mM	0.2181 mL	1.0906 mL	2.1812 mL
50 mM	0.0436 mL	0.2181 mL	0.4362 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

Degnan AP, et al. Discovery of Orally Active Isofuranones as Potent, Selective Inhibitors of Hematopoietic Progenitor Kinase 1. ACS Med Chem Lett. 2021;12(3):443-450. Published 2021 Feb 19.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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