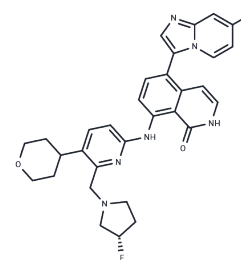


HPK1-IN-52

Chemical Properties

CAS No. : 2994298-66-5
 Formula: C₃₁H₃₀F₂N₆O₂
 Molecular Weight: 556.61
 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-52 is an effective orally active hematopoietic progenitor kinase 1 (HPK1) inhibitor, displaying anti-tumor activity with an IC ₅₀ value of 10.4 nM.
Targets(IC ₅₀)	MAPK
In vitro	HPK1-IN-52 (compound 24) exhibits significant activity (IC ₅₀ of 10.4 nM) and cellular potency (pSLP76 EC ₅₀ of 41 nM and IL-2 EC ₅₀ of 108 nM).
In vivo	HPK1-IN-52 (compound 24; 30 mg/kg; oral administration; twice daily; for two weeks) demonstrated moderate tumor growth inhibition (TGI) with a TGI of 42%. In mice, HPK1-IN-52 showed significantly increased plasma clearance (Cl _p = 46 mL/min/kg) and significantly higher oral exposure (AUC (0-24h) = 4139 h ng/mL). Additionally, in rats, this compound exhibited a lower in vivo clearance rate (Cl _p = 67 mL/min/kg) and higher oral exposure (AUC (0-24h) = 2013 h ng/mL).

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7966 mL	8.983 mL	17.9659 mL
5 mM	0.3593 mL	1.7966 mL	3.5932 mL
10 mM	0.1797 mL	0.8983 mL	1.7966 mL
50 mM	0.0359 mL	0.1797 mL	0.3593 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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