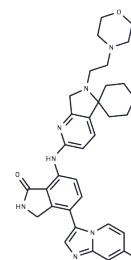


HPK1-IN-54

## Chemical Properties

CAS No. : 3048537-48-7  
 Formula: C32H34FN7O3  
 Molecular Weight: 583.66  
 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-54 (Compound 16) is a potent inhibitor of HPK1 (hematopoietic progenitor kinase 1), enhancing T cell activation and proliferation by blocking HPK1 activity to exert antitumor effects. It has an IC50 of 2.67 nM for HPK1, showing excellent selectivity over the MAP4K family (>100-fold) and other selected kinases (>300-fold). HPK1-IN-54 exhibits moderate in vivo clearance and reasonable oral exposure in both mice and rats. Additionally, in the CT26 mouse colon cancer model, HPK1-IN-54 demonstrates significant antitumor activity and shows a synergistic effect when combined with anti-PD-1 therapy. HPK1-IN-54 holds promise for research in the field of immunology.
Targets(IC50)	Others,MAPK

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7133 mL	8.5666 mL	17.1333 mL
5 mM	0.3427 mL	1.7133 mL	3.4267 mL
10 mM	0.1713 mL	0.8567 mL	1.7133 mL
50 mM	0.0343 mL	0.1713 mL	0.3427 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

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