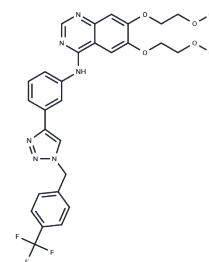


MAPK-IN-5

Chemical Properties

CAS No. :	2579683-39-7
Formula:	C30H29F3N6O4
Molecular Weight:	594.58
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	MAPK-IN-5 is a potent inhibitor of MAPK, with an IC50 value of 1.35 μ M in HeLa cells. It induces ROS-mediated DNA damage and mitochondrial apoptosis (apoptosis) via the MAPK pathway. MAPK-IN-5 significantly inhibits colony formation in HeLa cells, reduces viable cell numbers, suppresses cell migration, and arrests the cell cycle at the G2/M phase. It is applicable in cervical cancer research.
Targets(IC50)	Apoptosis,Bcl-2 Family,Caspase,p38 MAPK,PARP,ROS
In vitro	MAPK-IN-5 (Compound 3h) at concentrations of 5-10 μ M over 48 hours significantly inhibits colony formation and increases cell death in HeLa cells. It notably hinders the migration of HeLa cells within 0-48 hours. Furthermore, MAPK-IN-5 at 5-10 μ M for 24 hours can induce G2/M phase arrest. After 48 hours, it promotes apoptosis in HeLa cells by activating the mitochondrial apoptotic pathway. Additionally, MAPK-IN-5 stimulates ROS production, causes DNA damage, and modulates the MAPK signaling pathway in HeLa cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6819 mL	8.4093 mL	16.8186 mL
5 mM	0.3364 mL	1.6819 mL	3.3637 mL
10 mM	0.1682 mL	0.8409 mL	1.6819 mL
50 mM	0.0336 mL	0.1682 mL	0.3364 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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