

MAPK-IN-3

Chemical Properties

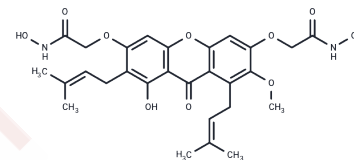
CAS No. : 2848599-79-9

Formula: C₂₈H₃₂N₂O₁₀

Molecular Weight: 556.56

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-3 (Compound 4a) is an antiproliferative agent demonstrating significant inhibitory effects on KYSE 30, HCT 116, and HGC 27 cell lines, with IC ₅₀ values of 0.57 μM, 3.27 μM, and 2.28 μM, respectively. This compound arrests the cell cycle via a p53-dependent mechanism and induces apoptosis through a p53-independent pathway. It reduces the expression of cell cycle-related proteins, such as Cyclin D1 and Cyclin B1, while increasing pro-apoptotic proteins like cleaved PARP, cleaved caspase-7, and cleaved caspase-9. MAPK-IN-3 also decreases anti-apoptotic proteins such as Bcl-2, elevates ROS levels in KYSE 30 cells, and enhances the expression of ROS-related MAPK pathway members, including p-ERK, p-p38, and p-JNK.
Targets(IC ₅₀)	ERK,Bcl-2 Family,Reactive Oxygen Species,Caspase,CDK,JNK,p38 MAPK,MDM-2/p53

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7968 mL	8.9838 mL	17.9675 mL
5 mM	0.3594 mL	1.7968 mL	3.5935 mL
10 mM	0.1797 mL	0.8984 mL	1.7968 mL
50 mM	0.0359 mL	0.1797 mL	0.3594 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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