

Autophagy agonist-1

Chemical Properties

CAS No. :

Formula: C33H41N3O5

Molecular Weight: 559.7

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	Autophagyagonist-1 (compound 22) is an autophagy agonist. It exhibits significant anticancer activity against HepG2 cells and normal cells, with IC50 values of 8.8 μ M and > 50 μ M, respectively. The compound induces G1/S phase cell cycle arrest, suppresses the expression of CDK4 and CyclinD1, and upregulates P21. Additionally, Autophagyagonist-1 enhances autophagosome, LC3, and PINK1 accumulation, thereby promoting autophagy and mitophagy in HepG2 cells.
Targets(IC50)	PTEN,CDK,Autophagy,ATG

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7867 mL	8.9334 mL	17.8667 mL
5 mM	0.3573 mL	1.7867 mL	3.5733 mL
10 mM	0.1787 mL	0.8933 mL	1.7867 mL
50 mM	0.0357 mL	0.1787 mL	0.3573 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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