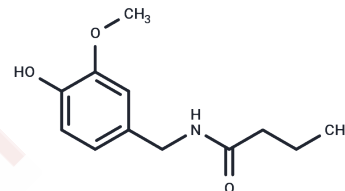


AURKA-IN-4

Chemical Properties

CAS No. :	89575-11-1
Formula:	C ₁₂ H ₁₇ NO ₃
Molecular Weight:	223.27
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	AURKA-IN-4 is a novel capsaicin analog that acts as an Aurora kinase A (AURKA) inhibitor. By specifically targeting AURKA in mitochondria, AURKA-IN-4 inhibits AURKA-dependent mitophagy, thereby eliminating the organelle. AURKA-IN-4 exhibits antiproliferative effects against various tumor cells and holds potential value for application in anticancer therapies that target cell cycle regulation.
Targets(IC50)	Mitochondrial Metabolism,Aurora Kinase,Molecular Glues

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4789 mL	22.3944 mL	44.7888 mL
5 mM	0.8958 mL	4.4789 mL	8.9578 mL
10 mM	0.4479 mL	2.2394 mL	4.4789 mL
50 mM	0.0896 mL	0.4479 mL	0.8958 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.

Reference

Amel Djehal, et al. Development of capsaicin-derived prohibitin ligands to modulate the Aurora kinase A/PHB2 interaction and mitophagy in cancer cells. bioRxiv. November 15, 2025.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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