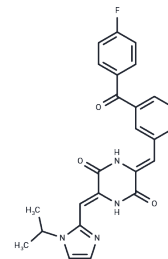


Microtubulin-IN-1

Chemical Properties

CAS No. :	3025180-14-4
Formula:	C ₂₅ H ₂₁ FN ₄ O ₃
Molecular Weight:	444.458
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	Microtubulin-IN-1 (Compound 8g) is an inhibitor of microtubulin, targeting the colchicine-binding site to disrupt tubulin integrity and induce upregulation of p53 protein expression. It exhibits antiproliferative activity across various cancer cell lines, including NCI-H460, BxPC-3, and HT-29, with IC ₅₀ values of 2.4, 1.6, and 2.07 nM, respectively. Additionally, Microtubulin-IN-1 induces cell cycle arrest at the G ₂ /M phase and apoptosis in NCI-H460 cells.
Targets(IC ₅₀)	Apoptosis, Microtubule Associated, MDM-2/p53

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2499 mL	11.2496 mL	22.4992 mL
5 mM	0.450 mL	2.2499 mL	4.4998 mL
10 mM	0.225 mL	1.125 mL	2.2499 mL
50 mM	0.045 mL	0.225 mL	0.450 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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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481