

Antiproliferative agent-23

Chemical Properties

CAS No. :

Formula: C₂₃H₂₈Cl₃N₃O₆Pt

Molecular Weight: 743.93

Storage: Keep away from direct sunlight, The compound is unstable in solution. Please use soon
 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	Antiproliferative agent-23, a microtubule-destabilizing agent (MDA), disrupts the tubulin-microtubule system, leading to apoptosis through a mitochondrion-dependent pathway. This involves downregulation of Bcl-2 protein, upregulation of Bax and Cyt c proteins, and activation of the caspase cascade. Additionally, it induces reactive oxygen species (ROS)-mediated endoplasmic reticulum stress in A549/CDDP cells (cisplatin-resistant cancer cell line) through the PERK/ATF4/CHOP signaling pathway, demonstrating anti-tumor activity [1].
Targets(IC50)	Apoptosis,Others,Microtubule Associated

Solubility Information

Solubility	DMSO: Slightly soluble, DMSO inactivates the activity of Antiproliferative agent-23. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3442 mL	6.7211 mL	13.4421 mL
5 mM	0.2688 mL	1.3442 mL	2.6884 mL
10 mM	0.1344 mL	0.6721 mL	1.3442 mL
50 mM	0.0269 mL	0.1344 mL	0.2688 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