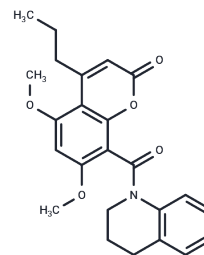


BNS-22

Chemical Properties

CAS No. : 1151668-24-4
 Formula: C₂₄H₂₅NO₅
 Molecular Weight: 407.46
 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	BNS-22 is a DNA topoisomerase II (Topo II) inhibitor with IC ₅₀ values of 2.8 μM and 0.42 μM for human TopoIIα and TopoIIβ-mediated kinetoplast DNA decatenation, respectively. BNS-22 induces mitotic abnormalities and exhibits antiproliferative activity against human cancer cells.
Targets(IC50)	Topoisomerase
In vitro	BNS-22 (0-30 μM, 24-48 hours) can inhibit the cell growth of the human cervical epidermoid carcinoma cell line HeLa and affect its cell cycle progression in a dose-dependent manner[1]. BNS-22 (0-30 μM, 0-6 hours) does not induce DNA damage and exerts an antagonistic effect on TOP2 toxin-mediated DNA damage[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (98.17 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4542 mL	12.2711 mL	24.5423 mL
5 mM	0.4908 mL	2.4542 mL	4.9085 mL
10 mM	0.2454 mL	1.2271 mL	2.4542 mL
50 mM	0.0491 mL	0.2454 mL	0.4908 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

Makoto Kawatani, et al. Identification of a small-molecule inhibitor of DNA topoisomerase II by proteomic profiling. Chem Biol. 2011 Jun 24;18(6):743-51.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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