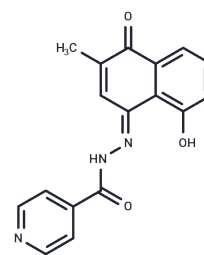


Antiproliferative agent-22

Chemical Properties

CAS No. :	1374305-45-9
Formula:	C ₁₇ H ₁₃ N ₃ O ₃
Molecular Weight:	307.3
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	Antiproliferative agent-22 is an anticancer compound that shows antiproliferative activity on MCF-7, MDA-MB-231, and MDA-MB-468 cells. Antiproliferative agent-22 is used in cancer research.
Targets(IC50)	NF-κB
In vitro	Antiproliferative agent-22 exhibits antiproliferative activity against MCF-7, MDA-MB-231, and MDA-MB-468 cells, with IC50 values of 6.2 μM, 3.3 μM, and 3.3 μM, respectively. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2541 mL	16.2707 mL	32.5415 mL
5 mM	0.6508 mL	3.2541 mL	6.5083 mL
10 mM	0.3254 mL	1.6271 mL	3.2541 mL
50 mM	0.0651 mL	0.3254 mL	0.6508 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

Dandawate P, et al. Synthesis, characterization, molecular docking and cytotoxic activity of novel plumbagin hydrazones against breast cancer cells. Bioorg Med Chem Lett. 2012 May 1;22(9):3104-8.

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