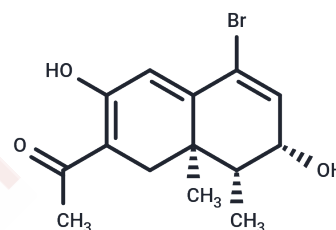


Antiproliferative agent-48

Chemical Properties

CAS No. :	1621594-62-4
Formula:	C ₁₄ H ₁₇ BrO ₃
Molecular Weight:	313.19
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	Compound PC-A1 (Antiproliferative agent-48) demonstrates selective antiproliferative activity against triple-negative breast cancer (TNBC) cells [1].
Targets(IC50)	Others
In vitro	Antiproliferative agent-48, at concentrations ranging from 5-50 μ M, inhibits the proliferation of various cancer cell lines including MDA-MB-231 (TNBC), MCF-7, A549, and KB (HeLa derivative) as well as KB-VIN, with IC ₅₀ values of 5.4, 18, 19, 15, and 19 μ M respectively [1]. This compound also induces cell cycle arrest at the G ₂ /M phase in MDA-MB-231 cells [1]. In cell proliferation experiments conducted over 72 hours, Antiproliferative agent-48 demonstrated significant inhibition of cellular proliferation at micromolar levels [1]. Cell cycle analysis revealed the blockade of cells in the G ₂ /M phase after 24 hours of incubation [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1929 mL	15.9647 mL	31.9295 mL
5 mM	0.6386 mL	3.1929 mL	6.3859 mL
10 mM	0.3193 mL	1.5965 mL	3.1929 mL
50 mM	0.0639 mL	0.3193 mL	0.6386 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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