

Ardisianone

Chemical Properties

CAS No. :	66398-68-3
Formula:	C ₂₄ H ₃₈ O ₅
Molecular Weight:	406.56
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	Ardisianone, a compound with an alkylbenzoquinone structure, is isolated from extracts of <i>Ardisia virens</i> Kurz and <i>Ardisia compressa</i> tea. It exhibits potent anti-leukemic activity, particularly in HL-60 cells, where its IC ₅₀ values are 1.87 μM (24 h) and 1.67 μM (48 h). Ardisianone induces caspase-dependent apoptosis and triggers pyroptosis. It is useful for acute myeloid leukemia (AML) research.
Targets(IC ₅₀)	Apoptosis,Pyroptosis
In vitro	Ardisianone, when applied at 1-5 μM for 24-48 hours, induces apoptosis in HL-60 cells and exhibits potent cytotoxicity, with IC ₅₀ values of 1.87 μM at 24 hours and 1.67 μM at 48 hours. At concentrations of 2-5 μM over 24 hours, it also shows pyroptosis-inducing activity in HL-60 cells. Furthermore, Ardisianone at 0.5-2 μM over 72 hours significantly enhances the expression of CD11b and CD68 in these cells and promotes differentiation into monocyte-like and macrophage-like morphologies. At 2 μM, Ardisianone demonstrates DNA damage-inducing activity in HL-60 cells.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4597 mL	12.2983 mL	24.5966 mL
5 mM	0.4919 mL	2.4597 mL	4.9193 mL
10 mM	0.246 mL	1.2298 mL	2.4597 mL
50 mM	0.0492 mL	0.246 mL	0.4919 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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