

CAY10503

Chemical Properties

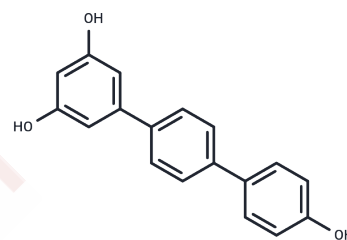
CAS No. : 890854-82-7

Formula: C₁₈H₁₄O₃

Molecular Weight: 278.3

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	CAY10503 is a proapoptotic, antiproliferative compound that is able to arrest cell cycle progression in the G ₀ -G ₁ phase. CAY10503 inhibits the growth of HL60, multidrug resistant HL60R, and K562 cells with IC ₅₀ values of 7.0, 23, and 20 μM, respectively. Accumulation of HL60 cells in G ₀ -G ₁ occurred within eight hours following treatment with 50 μM CAY10503, whereas 10 μM CAY10503 required 96 hours for cell cycle arrest to appear. CAY10503 also induces differentiation of HL60 cells into the following positive cells: CD14 (monocytic marker) as well as CD11b and CD11c (granulocytic markers). Approximately 60% of HL60 cells exposed to 10 μM CAY10503 expressed these markers within 72 hours.
Targets(IC ₅₀)	Apoptosis,Others

Solubility Information

Solubility	DMSO: 20 mg/mL (71.86 mM),Sonication is recommended. Ethanol:PBS (pH 7.2)(1:3): 0.25 mg/mL (0.9 mM),Sonication is recommended. DMF: 30 mg/mL (107.8 mM),Sonication is recommended. Ethanol: 30 mg/mL (107.8 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	3.5932 mL	17.9662 mL	35.9324 mL
5 mM	0.7186 mL	3.5932 mL	7.1865 mL
10 mM	0.3593 mL	1.7966 mL	3.5932 mL
50 mM	0.0719 mL	0.3593 mL	0.7186 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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