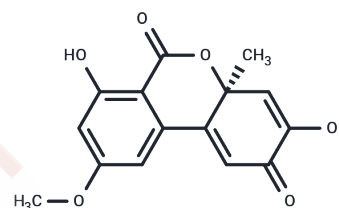


Dehydroaltenusin

Chemical Properties

CAS No. :	31186-13-7
Formula:	C ₁₅ H ₁₂ O ₆
Molecular Weight:	288.255
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	Dehydroaltenusin is a selective eukaryotic DNA polymerase α inhibitor and a type of antibiotic produced by a fungus (IC ₅₀ : 0.68 μ M). Dehydroaltenusin inhibits mammalian pol α activity.
Targets(IC ₅₀)	Apoptosis, Antibiotic, DNA/RNA Synthesis
In vitro	Dehydroaltenusin (38.0 μ M; 6 hours) inhibits cell growth by blocking the S-phase of DNA replication. Dehydroaltenusin (38.0-44.4 μ M; 24 hours) inhibits cell growth in a dose-dependent manner (LD ₅₀ s: 38.0 to 44.4 μ M). Dehydroaltenusin (75.0 μ M; 24 hours) has a potent apoptotic effect on human cancer cells, DNA ladders can be detected after 12 h of incubation with dehydroaltenusin.
In vivo	Dehydroaltenusin possesses anti-tumor activity against human adenocarcinoma tumors in vivo. Dehydroaltenusin (injection; 20 mg/kg; 2-day intervals; 12-39 days) shows suppressed tumor growth from 21 days.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4691 mL	17.3455 mL	34.6909 mL
5 mM	0.6938 mL	3.4691 mL	6.9382 mL
10 mM	0.3469 mL	1.7345 mL	3.4691 mL
50 mM	0.0694 mL	0.3469 mL	0.6938 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

Mizushina Y, et al. Dehydroaltenusin is a specific inhibitor of mammalian DNA polymerase α . Expert Opin Investig Drugs. 2011 Nov;20(11):1523-34.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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