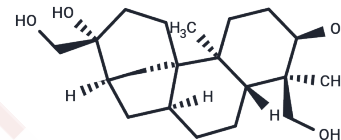


Aphidicolin

Chemical Properties

CAS No. :	38966-21-1
Formula:	C ₂₀ H ₃₄ O ₄
Molecular Weight:	338.48
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	Aphidicolin, an antibiotic derived from the mold <i>Cephalosporium aphidicola</i> , is a potent inhibitor of DNA (deoxyribonucleic acid) synthesis, effectively hindering the proliferation of herpes simplex virus[2]. It targets DNA polymerase α and δ , disrupting mitotic cell division by affecting DNA polymerase activity[1]. Additionally, aphidicolin enhances apoptosis when combined with arabinosyl nucleosides in a human promyelocytic leukemia cell line[3].
Targets(IC50)	Apoptosis,Others,Antibiotic,HSV,DNA/RNA Synthesis,Virus Protease

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9544 mL	14.7719 mL	29.5438 mL
5 mM	0.5909 mL	2.9544 mL	5.9088 mL
10 mM	0.2954 mL	1.4772 mL	2.9544 mL
50 mM	0.0591 mL	0.2954 mL	0.5909 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

- Dresler SL, et al. Involvement of DNA polymerase delta in DNA repair synthesis in human fibroblasts at late times after ultraviolet irradiation. *Biochemistry*. 1988 Aug 23;27(17):6379-83.
- Bucknall RA, et al. Antiviral effects of aphidicolin, a new antibiotic produced by *Cephalosporium aphidicola*. *Antimicrob Agents Chemother*. 1973 Sep;4(3):294-8.
- Kuwakado K, et al. Aphidicolin potentiates apoptosis induced by arabinosyl nucleosides in human myeloid leukemia cell lines. *Biochem Pharmacol*. 1993 Dec 3;46(11):1909-16.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481