



LKT Laboratories, Inc.

Aphidicolin

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Product Information

Product ID A6229

CAS No. 38966-21-1

Chemical Name (3 α ,4 α ,5 α ,17 α)-3,17-Dihydroxy-4-methyl-9,15-cyclo-C,18-dinor-14,15-secoandrosterane-4,17-dimethanol

Synonym ICI-69653, NSC-234714

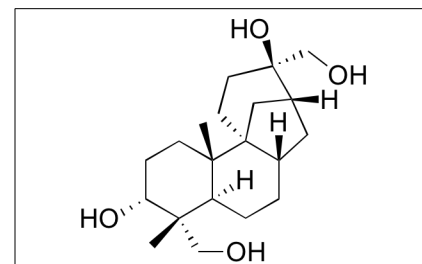
Formula C₂₀H₃₄O₄

Formula Wt. 338.48

Melting Point 227-232 °C

Purity ≥98%

Solubility Soluble in DMSO, ethanol.



Bulk quantities available upon request

Product ID	Size
A6229	1 mg
A6229	5 mg
A6229	10 mg

Store Temp -20 °C

Ship Temp Ambient

Description Aphidicolin is a diterpene antibiotic initially produced by *Cephalosporum* that exhibits antiviral activities. Aphidicolin inhibits eukaryotic DNA replication by inhibiting DNA polymerase and inducing S phase cell cycle arrest. In research models, aphidicolin is used to study cell cycle phases. This compound also inhibits the growth of vaccinia virus in vivo by inhibiting viral DNA polymerase.

References Willis J, DeStephanis D, Patel Y, et al. Study of the DNA damage checkpoint using *Xenopus* egg extracts. *J Vis Exp*. 2012 Nov 5; (69):e4449. PMID: 23149695.

Zhao YM, Li JY, Lan JP, et al. Cell cycle dependent telomere regulation by telomerase in human bone marrow mesenchymal stem cells. *Biochem Biophys Res Commun*. 2008 May 16;369(4):1114-9. PMID: 8339310.

DeFilippes FM. Effect of aphidicolin on vaccinia virus: isolation of an aphidicolin-resistant mutant. *J Virol*. 1984 Nov;52(2):474-82. PMID: 6436508.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.