



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

APHIDICOLIN

DNA polymerase inhibitor
Catalog No. SIH-605



Discovery through Partnership | Excellence through Quality

Product Name

Aphidicolin

Description

DNA polymerase inhibitor

Purity

>98% (TLC); NMR (Conforms)

CAS No.

38966-21-1

Molecular Formula

$C_{20}H_{34}O_4$

Molecular Weight

338.5

Field Of Use

Not for use in humans. Not for use in diagnostics or therapeutics. For in vitro research use only.

Properties

Storage Temperature

-20°C

Shipping Temperature

Shipped Ambient

Product Type

Inhibitor

Solubility

May be dissolved in DMSO (10 mg/ml); or ethanol (1 mg/ml)

Source

Synthetic

Appearance

White powder

SMILES

C[C@]12CC[C@H]([C@@]([C@@H]1CC[C@@H]3[C@@]24CC[C@@]([C@H](C3)C4)(CO)O)(C)CO)O

InChI

InChI=1S/C20H34O4/c1-17(11-21)15-4-3-13-9-14-10-19(13,7-8-20(14,24)12-22)18(15,2)6-5-16(17)23/h13-16,21-24H,3-12H2,1-2H3/t13-,14+,15-,16+,17-,18-,19-,20-/m0/s1

InChIKey

NOFOAYPPHIUXJR-APNQCZIXSA-N

Safety Phrases

Classification: Caution: Not a hazardous substance or mixture.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Cite This Product

Aphidicolin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-605)

Biological Description

Alternative Names

(3R,4R,4aR,6aS,8R,9R,11aS,11bS)-Tetradecahydro-3,9-dihydroxy-4,11b-dimethyl-8,11a-methano-11aH-cyclohepta[a]naphthalene-4,9-dimethanol; (from *Nigrospora* sp.)

Research Areas

Cell Signaling, Epigenetics and Nuclear Signaling, Neuroscience

PubChem ID

457964

Scientific Background

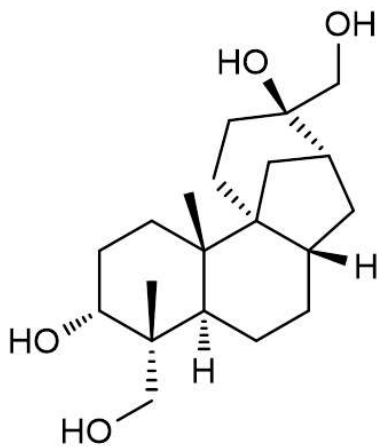
Aphidicolin specifically inhibits DNA polymerase α and δ via binding to the enzyme, in eukaryotic cells such as the HeLa cell line, without affecting other DNA polymerases (1). Arrests cell cycle at early S phase while

allowing continued cell growth(2). Potentiates apoptosis induction induced by other agents(3). Increases gene amplification frequency in HeLa S3 cells overexpressing Bcl-2(4).

References

- 1., Syvaoja J., et al. (1990) Proc. Natl. Acad. Sci. USA. 87(17):6664-6668.
 - 2., Urbani L., et al. (1995) Exp. Cell Res. 219(1):159-168.
 - 3., Kuwakado K., et al. (1993) Biochem. Pharmacol. 46:1909-1916.
 - 4., Yin D.X., and Schimke R.T. (1996) Proc. Natl. Acad. Sci. USA. 93:3394-3398.
-

Product Images



Chemical structure of Aphidicolin (SIH-605), a DNA polymerase inhibitor. CAS #: 38966-21-1. Molecular Formula: C₂₀H₃₄O₄. Molecular Weight: 338.5 g/mol.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.

© 2022 stressmarq.com