Aphidicolin

Catalog No.C18013 Batch:C1801303

Product Datasheet

Technical Data

Formula	C20H34O4		
Molecular Weight	338.48	**CAS No.**	38966-21-1
Solubility (25°C)*	In vitro	DMSO	68 mg/mL (200.89 mM)
		Ethanol	5 mg/mL (14.77 mM)
		Water	Insoluble

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Biological Activity

Description	Aphidicolin is a tetracyclic diterpenoid antibiotic produced by *Cephalosporium aphidicola* that specifically inhibits eukaryotic DNA polymerases α and δ, thereby blocking DNA replication and mitotic cell division. This compound demonstrates broad antiviral activity, including inhibition of herpes simplex virus replication and anti-orthopoxvirus effects. Additionally, this chemical enhances arabinosyl nucleoside-induced apoptosis in HL-60 human promyelocytic leukemia cells.
In vivo	Aphidicolin, has been developed with higher solubility agent, namely Aphidicolin glycinate (AG; NSC 303812). This compound (100 mg/kg; i.p.; once every 3 h; 9 d) shows anti-tumor activity against the implanted B16 melanoma and M5076 sarcoma in murine, producing maximum increased life spans of 75%.

References

https://www.ncbi.nlm.nih.gov/3146346 https://www.ncbi.nlm.nih.gov/4357181 https://www.ncbi.nlm.nih.gov/8267640

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RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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