Product Datasheet

Technical Data

Formula	C12H17NO3		
Molecular Weight	223.27	**CAS No.**	17397-89-6
Solubility (25°C)*	In vitro	DMSO	45 mg/mL (201.54 mM)
		Ethanol	45 mg/mL (201.54 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	Cerulenin is a natural epoxide compound produced by the fungus Cephalosporium caeruleus that inhibits fatty acid synthase (FASN). This compound reduces topoisomerase I catalytic activity and enhances SN-38-induced apoptosis. Cerulenin exhibits both antifungal and antitumor properties.
In vivo	Cerulenin treatment of ob/ob mice has obvious effects on body weight. With 2 days of treatment, body weight in treated mice is decreased compared to a 5.7% weight gain in the controls. With prolonged (7 days) treatment, no body weight loss is observed, but body weight gain is slowed. In all groups, 60 mg/kg of Cerulenin is more effective than 30 mg/kg in inhibiting weight gain. If given daily or every other day, ATP content are increased 58.1% and 61.5% respectively by 7-day treatment of 60 mg/kg Cerulenin. Significant ATP elevation is also observed with only 2 days of treatment with 60 mg/kg Cerulenin. In contrast, 30 mg/kg Cerulenin, given either 2 or 7 days, does not show any significant effect on cellular ATP content.

References

https://www.ncbi.nlm.nih.gov/24044691 https://www.ncbi.nlm.nih.gov/23170972 https://www.ncbi.nlm.nih.gov/24086674

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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.

EU Headquarters
Gajeva ulica 28, HR-10000 Zagreb, Croatia

US Headquarters
12222 Merit Dr STE 130 Dallas, Texas, 75251

UK Headquarters
121 ABILITY HOUSE, BROOKER ROAD, EN9 1JH, ESSEX

Orders: Sales@capsidbio.com
Enquiries: info@capsidbio.com
www.capsidbio.com