



LKT Laboratories, Inc.

Cerulenin

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Product Information

Product ID C1869

CAS No. 17397-89-6

Chemical Name (2R,3S)-3-[(4E,7E)-1-Oxo-4,7-nonadienyl]oxirane- carboxamide

Synonym Helicocerin

Formula C₁₂H₁₇NO₃

Formula Wt. 223.27

Melting Point 93-94 °C

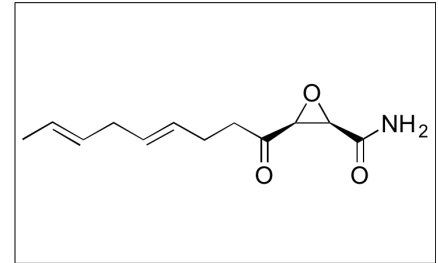
Purity ≥98%

Solubility Soluble in ethanol, acetone,
or benzene. Slightly soluble
in water.

Store Temp -20 °C

Ship Temp Ambient

Description Cerulenin is an inhibitor of fatty acid synthase found in *Cephalosporium*. Cerulenin exhibits antibiotic, antifungal, and anticancer chemotherapeutic activities. In cellular and animal models of colon cancer, cerulenin induces apoptosis and cellular death and decreases tumor growth. Cerulenin may also inhibit insulin secretion.



Bulk quantities available upon request

Product ID	Size
C1869	1 mg
C1869	5 mg
C1869	10 mg

References Straub SG, Sharp GW. Inhibition of insulin secretion by cerulenin might be due to impaired glucose metabolism. *Diabetes Metab Res Rev.* 2007 Feb;23(2):146-51. PMID: 16705622.

Price AC, Choi KH, Heath RJ, et al. Inhibition of beta-ketoacyl-acyl carrier protein synthases by thiolactomycin and cerulenin. Structure and mechanism. *J Biol Chem.* 2001 Mar 2;276(9):6551-9. PMID: 11050088.

Huang P, Zhu S, Lu S, et al. Cerulenin inhibits growth of human colonic carcinoma in nude mice. *Zhonghua Bing Li Xue Za Zhi.* 2000 Dec;29(6):435-8. PMID: 11866947.

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