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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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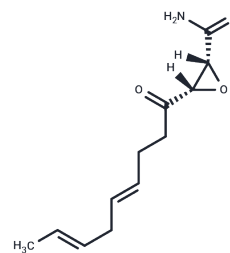
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Cerulenin

Chemical Properties

CAS No. :	17397-89-6
Formula:	C ₁₂ H ₁₇ NO ₃
Molecular Weight:	223.27
Appearance:	no data available
Storage:	store at low temperature,store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Cerulenin is a natural inhibitor of fatty acid synthase (FAS). It is produced by the fungus <i>Cephalosporium caeruleus</i> .
Targets(IC50)	Antibiotic,Antifungal,Fatty Acid Synthase
In vitro	Cerulenin had a similar effect as StAR overexpression.StAR attenuated lipid synthesis and uptake as well as PA-induced inflammation and reduction in NO bioavailability in aortic endothelial cells. StAR can ameliorate endothelial dysfunction induced by PA via reducing the intracellular lipid levels[1].
In vivo	The histological profile of ob/ob livers that received cerulenin treatment demonstrated a dramatic reduction in lipid content, which was dose and time dependent. Seven-day treatment of 60 mg/kg cerulenin daily or every other day demonstrated the greatest decrease of fat staining and in some areas of the liver, ORO staining was absent (Fig. 3D-F). Two-day treatment of 60 mg/kg cerulenin resulted in a modest reduction in fat content. In contrast, cerulenin given 30 mg/kg was less effective than 60 mg/kg doses, but its effect on fat content was still obvious except for 2-day treatment (data not shown)[2].

Solubility Information

Solubility	Ethanol: Soluble DMSO: 90 mg/mL (403.10 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.4789 mL	22.3944 mL	44.7888 mL
5 mM	0.8958 mL	4.4789 mL	8.9578 mL
10 mM	0.4479 mL	2.2394 mL	4.4789 mL
50 mM	0.0896 mL	0.4479 mL	0.8958 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Tian D, et al. Overexpression of steroidogenic acute regulatory protein in rat aortic endothelial cells attenuates palmitic acid-induced inflammation and reduction in nitric oxide bioavailability. Cardiovasc Diabetol. 2012 Nov 21;

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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