

Cerulenin, Fatty acid biosynthesis inhibitor

Catalog	Unit
TBI2062-5MG	5 mg
TBI2062-25MG	25 mg

Product Details

Formal Name: 2,3-Epoxy-4-oxo-7,10-dodecadienamide

Molecular Formula: C₁₂H₁₇NO₃

Formula Weight: 223.27

CAS Number: 17397-89-6

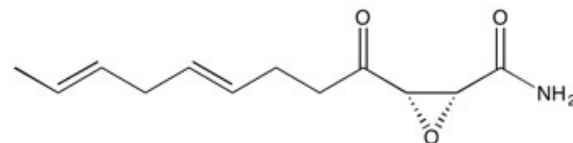
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (up to 10 mg/ml) or in Ethanol (up to 10 mg/ml).

Storage: -20°C

Stability: ≥ 2 years.



Applications

Fatty acid biosynthesis inhibitor

Functions

Fatty acid synthase (FAS) inhibitor. Binds to β -keto-acyl-ACP synthase (KAS; IC₅₀=1.5 μ M), thus inhibiting protein acylation at concentrations of 45-134 μ M. Produces metabolic effects similar to the effects of leptin, but through mechanisms that are independent of, or down-stream of, both leptin and melanocortin receptors. Reduces nutrient-induced insulin release from normal rat islets. Induces apoptosis in human melanoma A-375 cells.

Application Procedures

First dissolved in DMSO (up to 10 mg/ml) or in Ethanol (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or ethanol may be stored at -20° for up to 1 month.

For research use only.