Cerulenin

**CATALOG #:**
- 1579-5 5 mg
- 1579-50 50 mg

**LOT #:**

**STRUCTURE:**

![STRUCTURE](image)

**ALTERNATE NAME:**
2,3-Epoxy-4-oxo-7,10-dodecadienamide

**CAS #:**
17397-89-6

**MOLECULAR FORMULA:**
C_{12}H_{17}NO_3

**MOLECULAR WEIGHT:**
223.3

**PURITY:**
≥98%

**APPEARANCE:**
White to off-white powder

**SOLUBILITY:**
Soluble in DMSO (20mg/ml), methanol or 100% ethanol (20mg/ml); slightly soluble in water.

**STORAGE CONDITIONS:**
Store at -20°C; Protect from light.

**BACKGROUND:**
Antibiotic. Fatty acid synthase (FAS) inhibitor, reported to bind in equimolar ratio to β-keto-acyl-ACP synthase, thus inhibiting protein acylation. Produces metabolic effects similar to effects of leptin, but through mechanisms that are independent of, or downstream from, both leptin and melanocortin receptors. Apoptosis inducer. Inhibitor of bacterial fatty acid synthesis (inhibits FabH, FabB and FabF condensation enzymes).

**CAUTION:**
Do not ingest, swallow, or inhale. Do not get in eyes or on skin. Care should be taken to prevent contact through all routes of exposure.

For Research Use Only! Not to be used in humans.