



CERTIFICATE of ANALYSIS

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| PRODUCT: | Cerulenin [2,3-Epoxy-4-oxo-7,10-dodecadienamide] C ₁₂ H ₁₇ NO ₃ , M.W. 223.3, CAS# [17397-89-6] |
| PRODUCT NUMBER: | C-1375 |
| LOT NUMBER: | B1333 |
| APPEARANCE: | White Powder |
| SOLUBILITY: | Soluble in DMSO (20 mg/ml), dimethyl formamide (20 mg/ml) dichloromethane (5 mg/ml), methanol, 100% ethanol (20 mg/ml) or acetone; slightly soluble in water. |
| MELTING POINT: | 90°C |
| PURITY (TLC): | Toluene: ethyl acetate: formic acid (6:3:1) 98% |
| PURITY (TLC): | Methanol: water (9:1) 98% |
| PRODUCT DESCRIPTION: | Isolated from <i>Cephalosporium caerulens</i> . 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 down-stream from, both leptin and melanocortin receptors. Apoptosis inducer. Inhibitor of bacterial fatty acid synthesis (inhibits FabH, FabB and FabF condensation enzymes) |
| STORAGE & HANDLING: | Store at +4°C. PROTECT FROM LIGHT! <u>WARNING: HARMFUL!</u> CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved. |

Verified: **KT**