

Ophiobolin A, Autophagy inducer; anticancer

Catalog	Unit
TBI3150-200UG	200 ug
TBI3150-1MG	1 mg

Product Details

Alternate Names: Cochliobolin A; Ophiobalin; NSC 114340

Molecular Formula: C₂₅H₃₆O₄

Formula Weight: 400.55

CAS Number: 4611-05-6

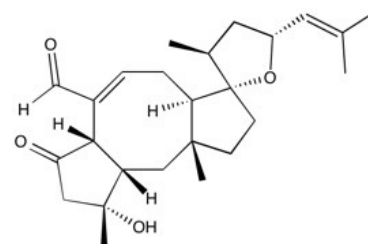
Purity: >98%

Formulation: powder

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

Storage: -20°C

Stability: ≥ 1 year.



Applications

Autophagy inducer; anticancer

Functions

Selectively inhibits the growth of cancer cells (IC₅₀=0.4-4.3 μM) over normal cells (IC₅₀=20.9 μM). Induces non-apoptotic cell death in glioblastoma cells and is active in an in vivo model. Covalently reacts with primary amines such as lysine side chains and phosphatidylethanolamine forming unique pyrrole adducts. Induces ER stress, paraptosis and autophagy.

Application Procedures

First dissolved in DMSO (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 2 months.

For research use only.