

Catalog	Unit
TBI5296-100UG	100 ug
TBI5296-500UG	500 ug

Product Details

Formal Name: 3-Chloro-4,6-dihydroxy-2-methyl-5-[(2E,4E)-3-methyl-5-[(1R,2R,6R)-1,2,6-trimethyl-3-oxocyclohexyl]-2,4-pentadien-1-yl]-benzaldehyde

Alternate Names: Ilicicolin D; NSC 287492

Molecular Formula: C₂₃H₂₉ClO₄

Formula Weight: 404.9

CAS Number: 26166-39-2

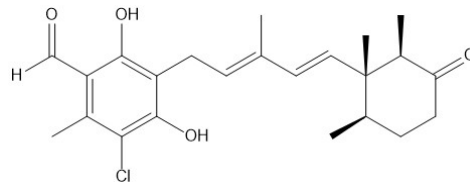
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (10 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

Mitochondrial cytochrome bc1 complex inhibitor

Functions

Ascochlorin is a novel isoprenoid phenol isolated from *Acremonium egyptiacum* and other species. It is a novel, specific inhibitor of the mitochondrial cytochrome bc1 complex (mitochondrial respiratory chain complex III) acting at both active sites. It induces caspase-independent necroptosis in LPS-stimulated RAW 264.7 macrophages resulting in anti-inflammatory effects. Demonstrates substantial antineoplastic effects in a variety of tumor cell lines and mouse models.

Application Procedures

First dissolved in DMSO (10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO or water may be stored at -20°C for up to 3 months.

For research use only.