

Catalog	Unit
TBI2069 - 1MG	1 mg
TBI2069 - 5MG	5 mg

Product Details

Fermentation product from *Drechslera dematioidea*.

Alternate Names: NSC107658; Phomin.

Molecular Formula: C₂₉H₃₇NO₅.

Formula Weight: 479.6.

CAS Number: 14930-96-2.

Purity: ≥98%

Formulation: Powder.

Solubility: Soluble in DMSO (up to 5 mg/ml) or in Ethanol (up to 10 mg/ml).

Storage: -20°C.

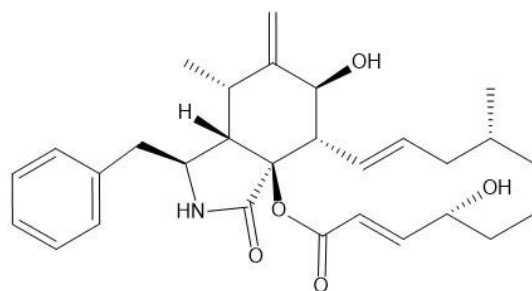
Stability: ≥ 2 years.

Applications

Actin filament disrupting agent.

Functions

A cell permeable fungal toxin which binds to the barbed end of actin, inhibiting its polymerization. Inhibits cell division, migration and glucose transport. Causes cell cycle arrest at G₂/M and induces apoptosis in HCT-116 colorectal carcinoma cells. Cytochalasin B-induced membrane vesicles (CIMVs) retain cell surface receptors of the parent cells and retain fusion specificity with target cells. CIMVs are a promising new vector system for drug and biomolecule delivery due to their natural origin and participation in intercellular communication.



Application Procedures

Cytochalasin B can be first dissolved in DMSO (up to 5 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°C for up to 1 month.

For research use only.