

Product Name: Cytochalasin B

Catalog No.: 5474

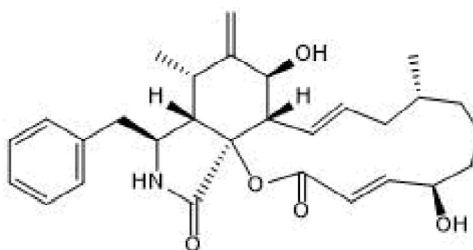
Batch No.: 8

CAS Number: 14930-96-2

IUPAC Name: (3*E*,5*R*,9*R*,11*E*,12*aS*,13*S*,15*S*,15*aS*,16*S*,18*aS*)-6,7,8,9,10,12*a*,13,14,15,15*a*,16,17-Dodecahydro-5,13-dihydroxy-9,15-dimethyl-14-methylene-16-(phenylmethyl)-2*H*-oxacyclotetradecino[2,3-*d*]isoindole-2,18(5*H*)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₉ H ₃₇ NO ₅ .
Batch Molecular Weight:	479.61
Physical Appearance:	White solid
Solubility:	DMSO to 10 mM with gentle warming
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.62	7.78	2.92
Found	72.4	7.72	2.84

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Cytochalasin B is an inhibitor of actin polymerization. Inhibits cell division, migration and glucose transport. Causes G₂/M cell cycle arrest and apoptosis in HCT-116 colorectal carcinoma cells. Cell permeable.

Physical and Chemical Properties:

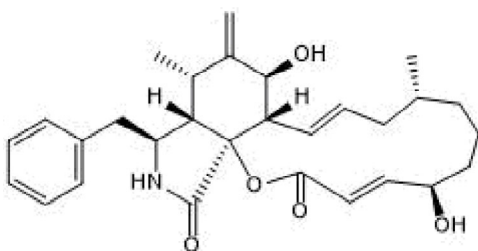
Batch Molecular Formula: C₂₉H₃₇NO₅.

Batch Molecular Weight: 479.61

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Buldak et al (2014) Changes in subcellular localization of visfatin in human colorectal HCT-116 carcinoma cell line after cytochalasin B treatment. *Eur.J.Histochem.* **58** 2408. PMID: 25308845.

Whitesell et al (2005) Compartmentalization of transport and phosphorylation of glucose in a hepatoma cell line. *Biochem.J.* **386** 245. PMID: 15473866.

Theodoropoulos et al (1994) Cytochalasin B may shorten actin filaments by a mechanism independent of barbed end capping. *Biochem.Pharmacol.* **47** 1875. PMID: 8204105.

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