

**Product Name:** Cytochalasin B

**Catalog No.:** 5474

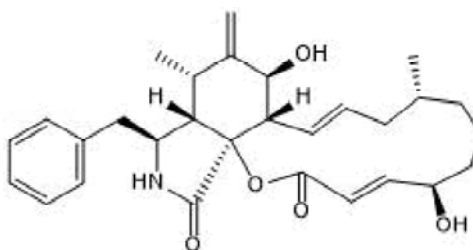
**Batch No.:** 6

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<sub>29</sub>H<sub>37</sub>NO<sub>5</sub>  
**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 98.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	72.62	7.78	2.92
Found	72.63	7.99	2.93

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 G<sub>2</sub>/M cell cycle arrest and apoptosis in HCT-116 colorectal carcinoma cells. Cell permeable.

**Physical and Chemical Properties:**

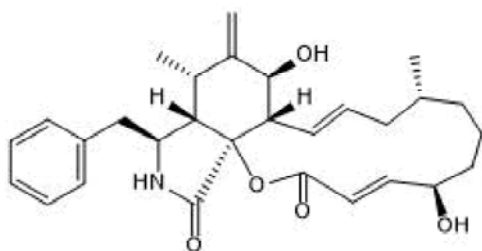
Batch Molecular Formula: C<sub>29</sub>H<sub>37</sub>NO<sub>5</sub>

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. Our standard recommendations are:

**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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