Potent inhibitor of actin polymerization which also causes the disruption of actin filaments. More potent than cytochalasin B (10-fold) and does not inhibit monosaccharide transport across cell membranes. Disruption of actin microfilaments leads to activation of p53. Cell permeable

1) Goddetteand et al. (1986), Actin polymerization. The mechanism of action of cytochalasin D ; J. Biol. Chem., 261 15974
2) Rubtsova et al. (1998), Disruption of actin microfilaments by cytochalasin D leads to activation of p53 ; FEBS Lett., 430 353

PHYSICAL DATA

Molecular Weight: 507.63
Molecular Formula: C_{30}H_{37}NO_6
Purity: 98% by TLC
NMR (Conforms)
Solubility: DMSO (up to 20 mg/ml) or ethanol (up to 5 mg/ml)
Physical Description: White solid
Storage and Stability: Store as supplied at -20°C for up to 3 years from the date of purchase. Protect from exposure to moisture. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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