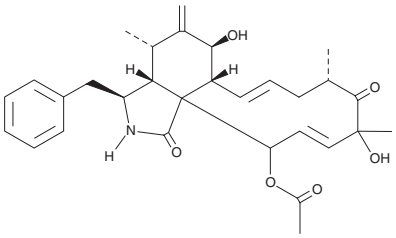
PRODUCT INFORMATION

Cytochalasin D (solution)

Item No. 46792

CAS Registry No.: 22144-77-0
Formal Name: (3S,3aR,4S,6S,6aR,7E,10S,12R,13E,15R,15aR)-15-(acetyloxy)-3,3a,4,5,6, 6a,9,10,12,15-decahydro-6,12-dihydroxy-4,10,12-trimethyl-5 methylene-3-(phenylmethyl)-1H-cycloundec[d]isoindole-1,11(2H)-dione
Synonym: NSC 209835
MF: $C_{30}H_{37}NO_6$
FW: 507.6
Purity: ≥95%
Supplied as: A 5/mg/ml solution in DMSO
Storage: -20°C
Stability: ≥2 years
Item Origin: Microbial fermentation



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Cytochalasin D (solution) is supplied as a solution in DMSO. To change the solvent, simply evaporate the DMSO under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as dichloromethane purged with an inert gas can be used. The solubility of cytochalasin D (solution) in dichloromethane is approximately 10 mg/ml.

Description

The cytochalasins are cell-permeable fungal metabolites that inhibit actin polymerization.[1-4] This interferes with diverse processes such as cell movement, growth, phagocytosis, degranulation, and secretion.[5-8] Cytochalasin D is a cell-permeable inhibitor that binds actin filaments, but not actin monomers, to inhibit polymerization at concentrations as low as 0.2 µM.[2] It prevents the migration of tumor cells.[9]

References

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WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM