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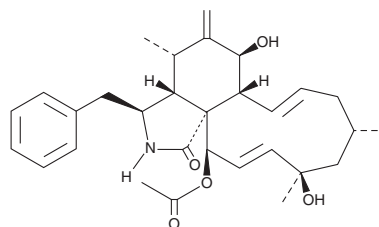
PRODUCT INFORMATION



Cytochalasin H

Item No. 18434

CAS Registry No.: 53760-19-3
Formal Name: (3S,3aR,4S,6S,6aR,7E,10S,12R,13E,15R,15aR)-15-(acetyloxy)-2,3,3a,4,5,6,6a,9,10,11,12,15-dodecahydro-6,12-dihydroxy-4,10,12-trimethyl-5-methylene-3-1H-cycloundec[d]isoindol-1-one
Synonyms: 17-Deoxo-21-acetylzygospurin D, Kodocytochalasin 1, Paspalin P1
MF: C₃₀H₃₉NO₅
FW: 493.6
Purity: ≥95%
Supplied as: A lyophilisate
Storage: -20°C
Stability: ≥2 years
Item Origin: Fungi/*Phomopsis* sp.



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

Laboratory Procedures

Cytochalasin H is supplied as a lyophilisate. A stock solution may be made by dissolving the cytochalasin H in the solvent of choice, which should be purged with an inert gas. Cytochalasin H is soluble in organic solvents such as ethanol, methanol, DMSO and dimethyl formamide. We do not recommend storing the aqueous solution for more than one day.

Description

The cytochalasins are cell-permeable fungal metabolites that inhibit actin polymerization.¹⁻⁴ This interferes with such diverse processes as cell movement, growth, phagocytosis, degranulation, and secretion.⁵⁻⁸ Cytochalasin H is a potent inhibitor of actin incorporation into filaments.^{9,10} Like cytochalasin D (Item No. 11330), it also increases the steady-state diffusion coefficients of filaments, suggesting that it stimulates filament shortening.⁹ Cytochalasin H suppresses the production of reactive oxygen species by stimulated human neutrophils, blocks endocytosis of CD59 in lymphocytes, and shows anti-angiogenic activity both *in vitro* and *in vivo*.¹⁰⁻¹²

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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