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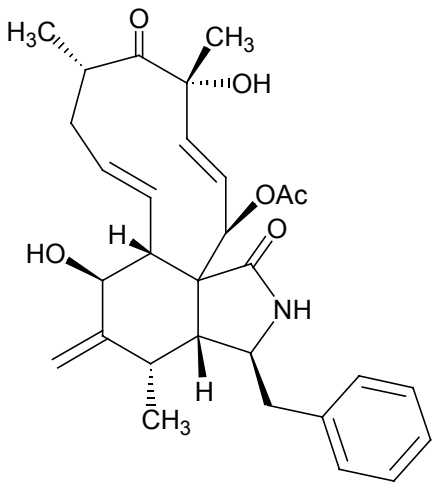
PRODUCT DATA SHEET

Cytochalasin D

Code: **BIA-C1170**

Pack sizes: **1 mg, 5 mg**



Synonyms : **Zygosporin A**

Specifications

CAS #	:	**22144-77-0**
Molecular Formula	:	**$C_{30}H_{37}NO_6$**
Molecular Weight	:	**507.6**
Source	:	***Geniculosporium* sp. MST-FP1762**
Appearance	:	**White solid**
Purity	:	**>99% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Cytochalasin D is the most studied of the cytochalasins. Like most of the members of the class it exhibits potent inhibition of actin filament function leading to cell death by apoptosis. This led to early investigation of the metabolite as an antitumor agent. Cytochalasin D has become one of the standard cellular probes for investigating the role of actin in cell biology.

References

1. Antitumor activity of cytochalasin D: Katagiri K. and Matsuura S. J. Antibiot. **1971**, 24, 722.
2. Effects of cytochalasin and phalloidin on actin: Cooper J. A. J. Cell. Biol. **1987**, 105, 1473
3. Myosin-actin interaction plays an important role in human immunodeficiency virus type 1 release from host cells. H. Sasaki, H. et al.; PNAS **1995**, 92, 2026.
4. Disruption of actin microfilaments by cytochalasin D leads to activation of p53. Rubtsova S. N. et al., FEBS Lett. **1998**, 430, 353.

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