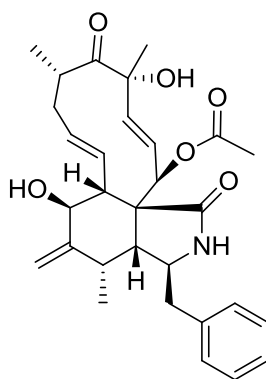


Cytochalasin D

Code No.: **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	: <i>Geniculosporium</i> sp.
Appearance	: Grey solid
Purity	: >99% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Cytochalasin D is the most studied of the cytochalasins. Like most of the members of this mycotoxin class, cytochalasin D 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.