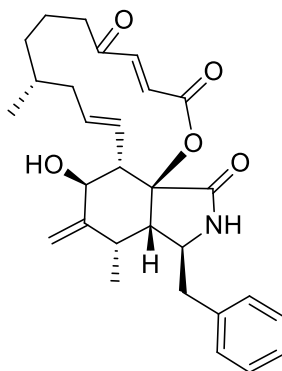


## Cytochalasin A

Code No.: **BIA-C1249**

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



Synonyms : Dehydrophomin

### Specifications

CAS #	: 14110-64-6
Molecular Formula	: $C_{29}H_{35}NO_5$
Molecular Weight	: 477.6
Source	: <i>Drechslera dematoidea</i>
Appearance	: White powder
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

### Application Notes

Cytochalasin A is one of a family of potent mycotoxins produced by several species of fungi. All members of the class exhibit profound effects on cytoskeletal proteins, giving rise to pronounced morphogenic activity in animals and plants. Like most cytochalasins, cytochalasin A exhibits potent inhibition of actin filament function leading to cell death by apoptosis and displays a broad range of resultant cellular actions. Despite the common mode of action, there is evidence that individual members of the class display diverse selectivity. Specifically, cytochalasin A is one of the few cytochalasins active against HIV-1 protease.

### References

1. The structures of cytochalasin A and B. Aldridge D. C. et al., J. Chem. Soc.1967, 1667.
2. L-696,474, a novel cytochalasin as an inhibitor of HIV-1 protease. III. Biological activity. Lingham R. B. et al., J. Antibiot. 1992, 45, 686.