

## Cytochalasin B PRODUCT DATA SHEET

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Product Name: Cytochalasin B

Product Number: C194

CAS Number: 14930-96-2 Molecular Formula:  $C_{29}H_{37}NO_5$ 

Molecular Weight: 479.6

**Appearance:** White powder

Storage Conditions: -20°C

**Description:** Cytochalasin B is one of the most extensively studied members 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. Despite the common mode of action, there is evidence that individual members of this class display diverse selectivity. However, lack of comparative co-metabolite analysis has restricted a more complete understanding of their individual selectivity.

Cytochalasin B is soluble in ethanol, methanol, DMF and DMSO.

**Mechanism of Action:** Cytochalasin B exhibits potent inhibition of actin filament function leading to

cell death by apoptosis, and displays a broad range of resultant cellular

actions.

**References:** The structures of cytochalasin A and B. Aldridge D. C. et al. J Chem Soc

1967, 1667.

Correlation between effects of 24 different cytochalasins on cellular structures and cellular events and those on actin in vitro. Yahara et al. J. Cell Biol. 1982,

92, 69.

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.

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