

## Cytochalasin D

## Chemical Properties

CAS No. : 22144-77-0

Formula: C<sub>30</sub>H<sub>37</sub>N<sub>1</sub>O<sub>6</sub>

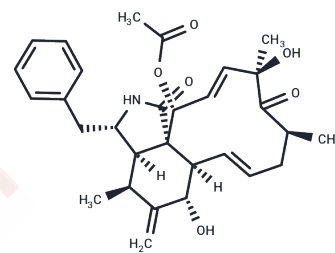
Molecular Weight: 507.62

Storage:

Store at low temperature, Keep away from moisture,  
Keep away from direct sunlight

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Cytochalasin D is an actin inhibitor, the removal of actin stress fibers is crucial for the chondrogenic differentiation. It may be an inhibitor of some fertilization processes such as sperm penetration or sperm head decondensation. Cytochalasin D inhibits CT26 tumor growth potentially through inhibition of cell proliferation, induction of cell apoptosis and suppression of tumor angiogenesis; it stimulates the expression of TF in B16 melanoma cells, activating both coagulation-dependent and -independent pathways via binding to FVIIa, eventually promoting lung metastasis. Cytochalasin D is also an inhibitor of microfilament-dependent phagocytosis, it (0.5 or 1.0 micrograms/ml) can inhibit intracellular multiplication of L. pneumophila in U937 monocytes. Cytochalasin D inhibits smooth muscle contraction by directly inhibiting contractile apparatus.
Targets(IC50)	ATPase, Calcium Channel, Akt, Arp2/3 Complex, Antibiotic, p38 MAPK, PI3K, YAP, Factor VIIa

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.970 mL	9.8499 mL	19.6998 mL
5 mM	0.394 mL	1.970 mL	3.940 mL
10 mM	0.197 mL	0.985 mL	1.970 mL
50 mM	0.0394 mL	0.197 mL	0.394 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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