# Cytochalasin D

## Inhibitor of actin polymerization

Cytochalasin D is a cell-permeable mycotoxin that binds to the barbed end of actin filaments inhibiting both the association and dissociation of subunits. It causes the disruption of actin filaments and inhibition of actin polymerization. As a result, it impedes with a variety of processes including cell cycle, motility, phagocytosis, proliferation, amongst others. It is about 10-fold more effective than cytochalasin B (Prod. No. BML-T108). Cytochalasin D also inactivates low conductance $K^+$ channels, modulates CD4 cross-linking in T lymphocytes, increases intracellular $Ca^{2+}$ levels, and exhibits antitumor activity.

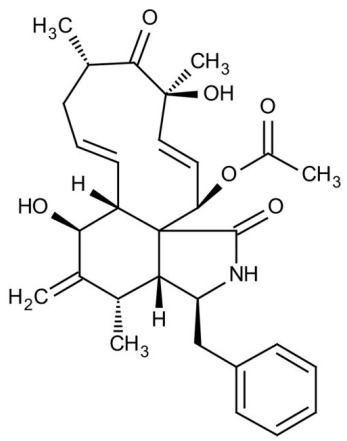
**Citations:** 52 View Online »

- Highly pure and potent inhibitor of actin polymerization
- Blocker of low conductance potassium channel
- Highly cited

## Ordering Information Order Online »

| | |
|---|---|
| **BML-T109-0001** | 1mg |

## Manuals, SDS & CofA View Online »


H3C
O
CH3
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CH3
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HO
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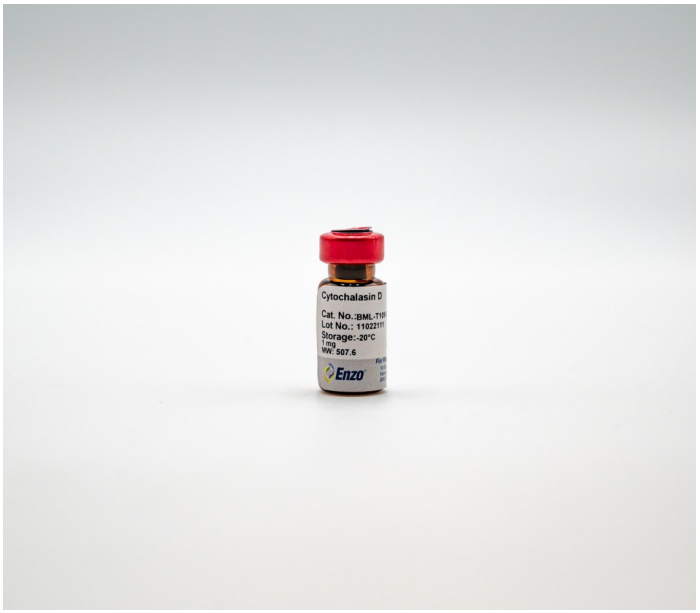
NH
H2C
H
CH3


Cytochalasin D
Enzo

## Handling & Storage

| | |
|---|---|
| **Use/Stability** | As indicated on product label or CoA when stored as recommended. |
| **Handling** | Protect from light. |
| **Long Term Storage** | -20°C |
| **Shipping** | Ambient Temperature |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | NSC 209835, Zygosporin A |
| **Appearance** | White to off-white solid |
| **CAS** | 22144-77-0 |
| **Couple Target** | Potassium channel |
| **Couple Type** | Blocker |
| **Formula** | $C_{30}H_{37}NO_6$ |
| **MW** | 507.6 |
| **Purity** | ≥97% (HPLC, single spot by TLC) |
| **Solubility** | Soluble in DMSO (25mg/ml), 100% ethanol (5mg/ml), or methylene chloride (10mg/ml). |
| **Source** | Isolated from *Zygosporium mansonii*. |

**Last modified: May 29, 2024**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