

Cytochalasin D Inducer

Catalog# SIH-241

Size: 1/ 5mg

This product is for *in vitro* research use only and is not intended for use in humans or animals

Product	(7S,13E,16S,18R,19E,21R)-21-(Acetyloxy)-7,18-dihydroxy-16,18-dimethyl-10-phenyl[11]cytochalasa-6(12),13,19-triene-1,17-dione (Apoptosis) inducers
Formula	C ₃₀ H ₃₇ NO ₆
MW	507.63 CAS Number 22144-77-0
Source/Host	Synthetic
Purity	>98%
Solubility	Soluble to 10mM in ethanol and to 50mM in DMSO.
Appearance	White solid.
Storage and stability	-20°C; 1 year+; shipped ambient

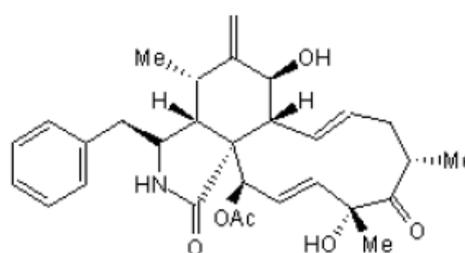


Figure 1: Structure of Cytochalasin D

Scientific Background

Cytochalasins have the ability to bind to actin filaments and block polymerization and elongation of actin. As a result, they can change cellular morphology, inhibit cellular processes and cause cells to undergo apoptosis (1). Cytochalasin D in particular can inhibit protein synthesis (2).

Selected References

1. Haidle A., and Myers A. (2004) *Proc Natl Acad Sci.* 101(33): 12048-12053.
2. Ornelles *et al.*, (1986) *Mol Cell Biol.* 6(5): 1650- 1662.

Material Safety Data Sheet

This product is for *in vitro* research use only and is not intended for use in humans or animals. The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Regulatory Information

Classification: Toxic. May be harmful or fatal if inhaled, swallowed or absorbed through skin

Safety Phrases: S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Risk Phrases: R62 - Possible risk of impaired fertility

R68 - Possible risk of irreversible effects

Hazard Phrases: H300-H361

Precautionary Phrases: P264-P281-P301 + P310

Physical Data

This product consists of powder shipped at ambient temperatures. The physical properties of this product have not been investigated thoroughly. CAS number 22144-77-0

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

If a rash or other irritation develops, call a physician.

- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers.

Call a physician.