



Product Information

Product ID C9881

CAS No. 22144-77-0

Chemical Name

Synonym

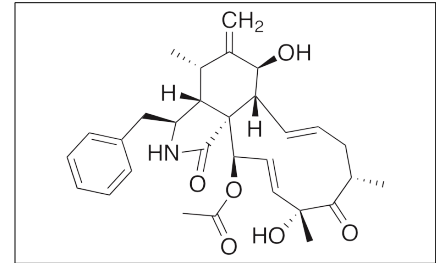
Formula $C_{30}H_{37}NO_6$

Formula Wt. 507.62

Melting Point 255°C (dec)

Purity $\geq 98\%$

Solubility



Bulk quantities available upon request

Product ID	Size
C9881	1 mg
C9881	5 mg

Store Temp 4°C

Ship Temp Ambient

Description Cytochalasin D is a mycotoxin actin polymerization inhibitor initially produced by species of *Aspergillus*. Cytochalasin D exhibits anti-angiogenic and pro-oxidative activities. In endothelial cells, cytochalasin D inhibits FGF- and VEGF-induced angiogenesis. In other cellular models, cytochalasin D increases production of ROS and activity of NADPH oxidase. Additionally, this compound increases levels of PPAR γ , lipoprotein lipase, and FABP4, controlling adipogenesis in stem cells through its effects on cytoskeletal tension.

References Wilkins JR, Pike DB, Gibson CC, et al. Differential effects of cyclic stretch on bFGF- and VEGF-induced sprouting angiogenesis. *Biotechnol Prog.* 2014 Feb 14. [Epub ahead of print]. PMID: 24574264.

Choy JS, Lu X, Yang J, et al. Endothelial actin depolymerization mediates NADPH oxidase-superoxide production during flow reversal. *Am J Physiol Heart Circ Physiol.* 2014 Jan 1;306(1):H69-77. PMID: 24186098.

Schiller ZA, Schiele NR, Sims JK, et al. Adipogenesis of adipose-derived stem cells may be regulated via the cytoskeleton at physiological oxygen levels in vitro. *Stem Cell Res Ther.* 2013 Jul 9;4(4):79. PMID: 23838354.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.