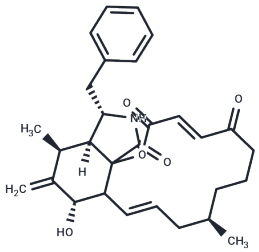
Data Sheet (Cat.No.T10928)

TargetMol

Cytochalasin A

Chemical Properties



CAS No. : 14110-64-6

Formula: C29H35NO5

Molecular Weight: 477.59

Storage: 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 A, a cell-permeable fungal toxin and oxidized derivative of cytochalasin B, is an inhibitor of HIV-1 protease (IC50 = 3 μM). It inhibits actin polymerization, interferes with microtubule assembly by reacting with sulfhydryl groups, and serves as an antibiotic and bactericidal active agent.
Targets(IC50)	HIV Protease,Antifungal

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0938 mL	10.4692 mL	20.9385 mL
5 mM	0.4188 mL	2.0938 mL	4.1877 mL
10 mM	0.2094 mL	1.0469 mL	2.0938 mL
50 mM	0.0419 mL	0.2094 mL	0.4188 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.

Reference

Kerman K, et al. An electrochemical approach for the detection of HIV-1 protease. Chem Commun (Camb). 2007 Oct 7;(37):3829-31.

Antonio Bottalico, et al. Cytochalasins: Structure-activity relationships. Phytochemistry Volume 29, Issue 1, 1990.

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