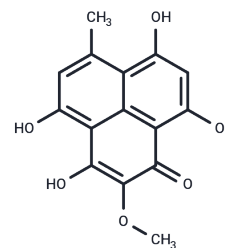


Funalenone

Chemical Properties

CAS No. :	259728-61-5
Formula:	C ₁₅ H ₁₂ O ₆
Molecular Weight:	288.255
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	Funalenone is a phenalenone originally isolated from <i>A. niger</i> . It inhibits HIV-1 integrase (IC ₅₀ = 10 μM) and HIV-1 replication in human peripheral blood cells transformed by murine leukemia virus (HPB-M(a); IC ₅₀ = 1.7 μM) but is less cytotoxic to mammalian HPB-M(a) cells (IC ₅₀ = 87 μM). Funalenone selectively inhibits matrix metalloproteinase-1 (MMP-1; IC ₅₀ = 170 μM) over MMP-2 and MMP-9, which it inhibits by 18.3 and 38.2%, respectively, when used at a concentration of 400 μM. It also inhibits the bacterial cell wall synthesis enzymes MraY and MurG (IC ₅₀ s = 25.5 μM in a membrane plate assay) and inhibits growth of <i>S. aureus</i> with a MIC value of 64 μg/mL.
Targets(IC50)	MMP,Others,HIV Protease,Antibacterial

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4691 mL	17.3455 mL	34.6909 mL
5 mM	0.6938 mL	3.4691 mL	6.9382 mL
10 mM	0.3469 mL	1.7345 mL	3.4691 mL
50 mM	0.0694 mL	0.3469 mL	0.6938 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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