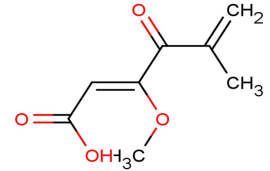


Data Sheet (Cat.No.T13815)

Penicillic acid

Chemical Properties

CAS No.:	90-65-3
Formula:	C ₈ H ₁₀ O ₄
Molecular Weight:	170.16
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Penicillic acid inhibits Fas ligand-induced apoptosis by blocking self-processing of caspase-8. Penicillic acid is a polyketide mycotoxin produced by several species of <i>Aspergillus</i> and <i>Penicillium</i> . Penicillic acid exhibits cytotoxicity in rat alveolar macrophages (AM) in vitro.
Targets(IC ₅₀)	Others: None

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.877 mL	29.384 mL	58.768 mL
5 mM	1.175 mL	5.877 mL	11.754 mL
10 mM	0.588 mL	2.938 mL	5.877 mL
50 mM	0.118 mL	0.588 mL	1.175 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Sorenson WG, et al. Toxicity of penicillic acid for rat alveolar macrophages in vitro. *Environ Res.* 1986 Dec;41(2):505-13.
- Bando M, et al. The mycotoxin penicillic acid inhibits Fas ligand-induced apoptosis by blocking self-processing of caspase-8 in death-inducing signaling complex. *J Biol Chem.* 2003 Feb 21;278(8):5786-93.

Inhibitors · Natural Compounds · Compound Libraries

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