

Penicillic acid

Chemical Properties

CAS No. : 90-65-3

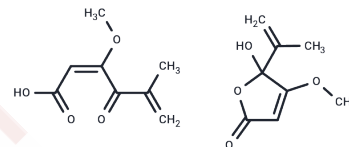
Formula: C₈H₁₀O₄

Molecular Weight: 170.16

Store at low temperature

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	Penicillic acid, a polyketide mycotoxin, synthesized by various species of <i>Aspergillus</i> and <i>Penicillium</i> , acts as an inhibitor of Fas ligand-induced apoptosis by impeding self-processing of caspase-8. Additionally, in vitro studies have shown that Penicillic acid displays cytotoxic properties in rat alveolar macrophages.
Targets(IC50)	Apoptosis,Caspase,Antibacterial,Antibiotic

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.8768 mL	29.3841 mL	58.7682 mL
5 mM	1.1754 mL	5.8768 mL	11.7536 mL
10 mM	0.5877 mL	2.9384 mL	5.8768 mL
50 mM	0.1175 mL	0.5877 mL	1.1754 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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286

E_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481