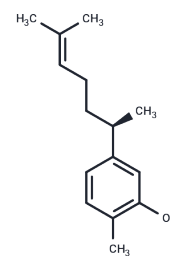


Xanthorrhizol

Chemical Properties

CAS No. :	30199-26-9
Formula:	C ₁₅ H ₂₂ O
Molecular Weight:	218.33
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	Xanthorrhizol is a natural product isolated from <i>Curcuma xanthorrhiza</i> Roxb. Xanthorrhizol is a potential antibacterial agent.
Targets(IC50)	Antibacterial
In vivo	Inhibition of ear edema caused by topical use of TPA by pretreatment with xanthine in a dose-related manner (P <0.005). In mice, Topical application of Xanthorrhizol alone does not induce ear edema. All the mice treated with 7.5 nM TPA for 19 weeks after initiation by DMBA developed an average of 15.5±2.3 skin tumors per mouse (tumor multiplicity). Pre-treatment with 2 and 6 μM Xanthorrhizol reduces tumor multiplicity to 6.9±1.1 (P<0.005) and 4.0±1.1 (P<0.005), respectively, at 19 weeks[3].

Solubility Information

Solubility	DMSO: 2.19 mg/mL (10.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5802 mL	22.9011 mL	45.8022 mL
5 mM	0.916 mL	4.5802 mL	9.1604 mL
10 mM	0.458 mL	2.2901 mL	4.5802 mL
50 mM	0.0916 mL	0.458 mL	0.916 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

Hwang JK, et al. izol: a potential antibacterial agent from Curcuma xanthorrhiza against Streptococcus mutans. Planta Med. 2000 Mar;66(2):196-7.

YAYA RUKAYADI, et al. The Effects of Xanthorrhizol on the Morphology of Candida Cells. Microbiology Indonesia, 2007,1(2):98-100.

Won Yoon Chung, et al. Xanthorrhizol inhibits 12-O-tetradecanoylphorbol-13-acetate-induced acute inflammation and two-stage mouse skin carcinogenesis by blocking the expression of ornithine decarboxylase, cyclooxygenase-2 and inducible nitric oxide synthase through mitogen-activated protein kinases and/or the nuclear factor-kB. Carcinogenesis vol.28 no.6 pp.1224-1231, 2007.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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