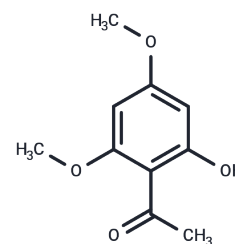


Xanthoxylin

Chemical Properties

CAS No. :	90-24-4
Formula:	C ₁₀ H ₁₂ O ₄
Molecular Weight:	196.2
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	Xanthoxylin (Xanthoxyline) is a borneol and camphor tasting compound and can be found in a number of food items such as fats and oils, herbs and spices, pomegranate, and sweet orange. Derivatives of Xanthoxylin have antispasmodic activity.
Targets(IC50)	Antifungal

Solubility Information

Solubility	DMSO: 250 mg/mL (1274.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.19 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0968 mL	25.4842 mL	50.9684 mL
5 mM	1.0194 mL	5.0968 mL	10.1937 mL
10 mM	0.5097 mL	2.5484 mL	5.0968 mL
50 mM	0.1019 mL	0.5097 mL	1.0194 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

Cechinel Filho V, et al. J Pharm Sci. 1995 Apr;84(4):473-5.

Schepetkin I A, Özek G, Özek T, et al. Neutrophil Immunomodulatory Activity of Farnesene, a Component of Artemisia dracunculus Essential Oils. Pharmaceuticals. 2022, 15(5): 642

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481