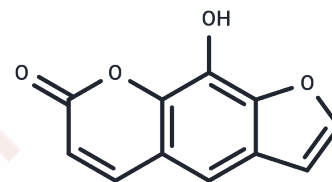


Xanthotoxol

Chemical Properties

CAS No. :	2009-24-7
Formula:	C ₁₁ H ₆ O ₄
Molecular Weight:	202.16
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	Xanthotoxol (Psoralen) is a biologically active linear furocoumarin, shows strong pharmacological activities as anti-inflammatory, antioxidant, 5-HT antagonistic, and neuroprotective effects.
Targets(IC50)	Reactive Oxygen Species, 5-HT Receptor, Endogenous Metabolite, ROS

Solubility Information

Solubility	DMSO: 125 mg/mL (618.32 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: < 10 mg/mL (49.47 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% (20% SBE- β -CD in Saline): < 10 mg/mL (49.47 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 10 mg/mL (49.47 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: 10 mg/mL (49.47 mM), Solution. <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	4.9466 mL	24.7329 mL	49.4658 mL
5 mM	0.9893 mL	4.9466 mL	9.8932 mL
10 mM	0.4947 mL	2.4733 mL	4.9466 mL
50 mM	0.0989 mL	0.4947 mL	0.9893 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

He W , Chen W , Zhou Y , et al. Xanthoxol Exerts Neuroprotective Effects Via Suppression of the Inflammatory Response in a Rat Model of Focal Cerebral Ischemia[J]. Cellular & Molecular Neurobiology, 2013, 33(5):715-722.
Zhu L, Sun S, Wu W, et al. Xanthoxol alleviates secondary brain injury after intracerebral hemorrhage by inhibiting microglia-mediated neuroinflammation and oxidative stress. Neurochirurgie. 2023, 69(3): 101426.

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