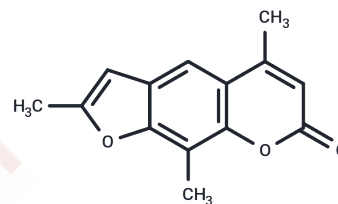


Trioxsalen

Chemical Properties

CAS No. :	3902-71-4
Formula:	C ₁₄ H ₁₂ O ₃
Molecular Weight:	228.24
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	Trioxsalen (Trioxysalen) is a furanocoumarin and a psoralen derivative, in conjunction with UV-A for phototherapy treatment of vitiligo and hand eczema. After photoactivation it creates interstrand cross-links in DNA, which can cause programmed cell death.
Targets(IC50)	DHFR,DNA Alkylator/Crosslinker

Solubility Information

Solubility	DMSO: 3.42 mg/mL (14.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.34 mg/mL (1.49 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	4.3814 mL	21.9068 mL	43.8135 mL
5 mM	0.8763 mL	4.3814 mL	8.7627 mL
10 mM	0.4381 mL	2.1907 mL	4.3814 mL
50 mM	0.0876 mL	0.4381 mL	0.8763 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

Hadjipavlou-Litina D,etal.Trioxsalen derivatives with lipoxygenase inhibitory activity.J Enzyme Inhib Med Chem. 2009 Dec;24(6):1351-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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