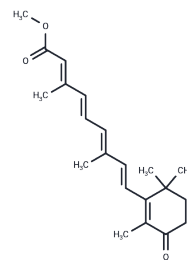


Methyl-4-oxoretinoate

Chemical Properties

CAS No. :	38030-58-9
Formula:	C ₂₁ H ₂₈ O ₃
Molecular Weight:	328.45
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	Methyl-4-oxoretinoate is a synthetic retinoid compound with anticancer compounds that can induce differentiation and apoptosis in cancer cells. Methyl-4-oxoretinoate is used in the treatment of acne, psoriasis, and other skin disorders. Methyl-4-oxoretinoate has the potential to be used in the treatment of a variety of ocular disorders such as age-related macular degeneration. related macular degeneration).
Targets(IC50)	Apoptosis,Others

Solubility Information

Solubility	DMSO: 45 mg/mL (137.01 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 (6.09 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	3.0446 mL	15.223 mL	30.446 mL
5 mM	0.6089 mL	3.0446 mL	6.0892 mL
10 mM	0.3045 mL	1.5223 mL	3.0446 mL
50 mM	0.0609 mL	0.3045 mL	0.6089 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

Shealy YF, et al. Cancer chemopreventive 3-substituted-4-oxoretinoic acids. J Med Chem. 1994;37(19):3051-3056.

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