

Octocrylene

Chemical Properties

CAS No. :	6197-30-4
Formula:	C ₂₄ H ₂₇ NO ₂
Molecular Weight:	361.477
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

Biological Description

Description	Octocrylene (Octocrilene) is used as an ingredient in sunscreens and cosmetics. This organic compound can penetrate into the skin where it acts as a photosensitizer. This results in an increased production of free radicals under illumination.
Targets(IC50)	Estrogen Receptor/ERR,Others,Cytochromes P450,PPAR,Photosensitizer

Solubility Information

Solubility	DMSO: 45.00 mg/mL (124.49 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: 2.00 mg/mL (5.53 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	2.7664 mL	13.832 mL	27.664 mL
5 mM	0.5533 mL	2.7664 mL	5.5328 mL
10 mM	0.2766 mL	1.3832 mL	2.7664 mL
50 mM	0.0553 mL	0.2766 mL	0.5533 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

Hanson KM. Free Radic Biol Med. 2006 Oct 15;41(8):1205-12.

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