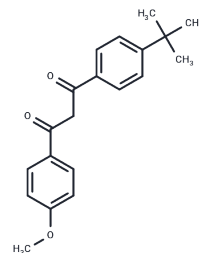


Avobenzone

Chemical Properties

CAS No. :	70356-09-1
Formula:	C ₂₀ H ₂₂ O ₃
Molecular Weight:	310.39
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	Avobenzone is a dibenzoylmethane endocrine disruptor that binds directly to estrogen receptor β , acting as an estrogen agonist. It is one of the most widely used filters in sunscreens for photoprotection of skin in the UV band.
Targets(IC50)	Apoptosis, Estrogen Receptor/ERR

Solubility Information

Solubility	Ethanol: 9 mg/mL (29 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 75 mg/mL (241.63 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (10.63 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	3.2218 mL	16.1088 mL	32.2175 mL
5 mM	0.6444 mL	3.2218 mL	6.4435 mL
10 mM	0.3222 mL	1.6109 mL	3.2218 mL
50 mM	0.0644 mL	0.3222 mL	0.6444 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

Dunkelberger AD, et al. J Phys Chem A. 2015 Jun 2.

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