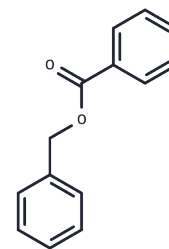


Benzyl benzoate

Chemical Properties

CAS No. :	120-51-4
Formula:	C ₁₄ H ₁₂ O ₂
Molecular Weight:	212.24
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Benzyl benzoate (Benzoic acid benzyl ester) is one of the older preparations used for the therapy of scabies. Scabies is a skin infection caused by the <i>Sarcoptes scabiei</i> . Its symptoms are red spots, severe itching (particularly at night), and may lead to a secondary infection. Benzyl benzoate is useful in the therapy of scabies because it is lethal to this mite. It is also used for the therapy of lice affection of the body and head. Benzyl benzoate is not the therapy of choice for scabies because of its irritant
Targets(IC50)	RAAS,Endogenous Metabolite,Antibacterial,Parasite,Antifungal
In vitro	Benzyl benzoate possess oestrogenic activity in MCF7 human breast cancer cells in vitro. It is able to increase the growth of oestrogen-dependent MCF7 human breast cancer cells[1].
Cell Research	Cells are added to the required volume of phenol red-free RPMI 1640 medium containing 5% DCFCS at a concentration of about 0.2×10^5 cells ml ⁻¹ and plated in monolayer in 0.5 ml aliquots into 24-well plastic tissue culture dishes (Nunc). After 24 h, the medium is changed to the same medium but containing the required concentration of test compound. Culture medium is changed routinely every 3-4 days. Cell counts are performed by counting released nuclei on a model ZBI Coulter Counter. (Only for Reference)

Solubility Information

Solubility	DMSO: 260 mg/mL (1225.03 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 (9.42 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	4.7116 mL	23.5582 mL	47.1165 mL
5 mM	0.9423 mL	4.7116 mL	9.4233 mL
10 mM	0.4712 mL	2.3558 mL	4.7116 mL
50 mM	0.0942 mL	0.4712 mL	0.9423 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

Charles AK, et al. J Appl Toxicol. 2009, 29(5):422-434.

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