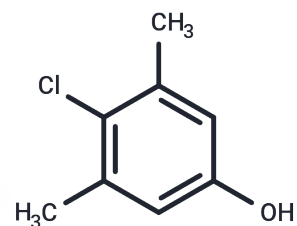


Chloroxylenol

Chemical Properties

CAS No. :	88-04-0
Formula:	C ₈ H ₉ ClO
Molecular Weight:	156.61
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	Chloroxylenol (PCMX) (4-chloro-3, 5-dimethylphenol), a broad spectrum antimicrobial chemical compound, is used to control virus, bacteria, fungi, and algae. It is used in households and hospitals for sanitation and disinfection.
Targets(IC50)	Antibacterial,Antibiotic,Parasite,Influenza Virus
In vitro	Chloroxylenol is inactivated by hard water[1]. It is used in hospitals and households for disinfection and sanitation. It is also commonly used in antibacterial soaps, wound-cleansing applications and household antiseptics such as Dettol liquid, cream and ointments. Its antibacterial action is due to disruption of cell membrane potentials[2].

Solubility Information

Solubility	DMSO: 6.25 mg/mL (39.91 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 29 mg/mL (185.17 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: 1 mg/mL (6.39 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	6.3853 mL	31.9264 mL	63.8529 mL
5 mM	1.2771 mL	6.3853 mL	12.7706 mL
10 mM	0.6385 mL	3.1926 mL	6.3853 mL
50 mM	0.1277 mL	0.6385 mL	1.2771 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

A Jafari, et al. J Basic Appl Sci Res. 2013, 3(6):397-401.

Aly R, et al. Am J Infect Control. 1998, 16(4):173-177.

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