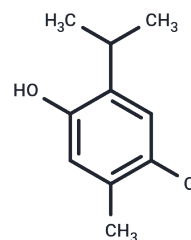


Chlorothymol

Chemical Properties

CAS No. :	89-68-9
Formula:	C ₁₀ H ₁₃ ClO
Molecular Weight:	184.66
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	Chlorothymol (A13-00120) is a disinfectant used in oral.
Targets(IC50)	GABA Receptor, Antibacterial
In vitro	Chlorothymol is positive allosteric modulators of GABA Receptor. Chlorothymol showed a bell-type effect, reducing its positive effect at concentrations >100 µM.

Solubility Information

Solubility	DMSO: 255 mg/mL (1380.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 10 mg/mL (54.15 mM), Suspension. <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	5.4154 mL	27.0768 mL	54.1536 mL
5 mM	1.0831 mL	5.4154 mL	10.8307 mL
10 mM	0.5415 mL	2.7077 mL	5.4154 mL
50 mM	0.1083 mL	0.5415 mL	1.0831 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

Delgado-Marín L, Sánchez-Borzone M, García DA. Neuroprotective effects of gabaergic phenols correlated with their pharmacological and antioxidant properties. *Life Sci.* 2017 Apr 15;175:11-15. doi: 10.1016/j.lfs.2017.03.005. Epub 2017 Mar 10. PubMed PMID: 28288780.

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