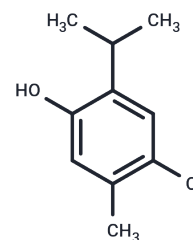


Chlorothymol

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: 60 mg/mL (324.92 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

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.

Reiner GN, Delgado-Marín L, Olgún N, Sánchez-Redondo S, Sánchez-Borzone M, Rodríguez-Farré E, Suñol C, García DA. GABAergic pharmacological activity of propofol related compounds as possible enhancers of general anesthetics and interaction with membranes. *Cell Biochem Biophys.* 2013 Nov;67(2):515-25. doi: 10.1007/s12013-013-9537-4. PubMed PMID: 23456454.

Reiner GN, Labuckas DO, García DA. Lipophilicity of some GABAergic phenols and related compounds determined by HPLC and partition coefficients in different systems. *J Pharm Biomed Anal.* 2009 Apr 5;49(3):686-91. doi: 10.1016/j.jpba.2008.12.040. Epub 2009 Jan 8. PubMed PMID: 19188039.

Saad el-Z, Hussien R, Saher F, Ahmed Z. Acaricidal activities of some essential oils and their monoterpenoidal constituents against house dust mite, *Dermatophagoides pteronyssinus* (Acari: Pyroglyphidae). *J Zhejiang Univ Sci B.* 2006 Dec;7(12):957-62. PubMed PMID: 17111463; PubMed Central PMCID: PMC1661675.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481