

Thiamphenicol

Chemical Properties

CAS No. : 15318-45-3

Formula: C₁₂H₁₅Cl₂NO₅S

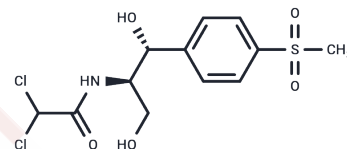
Molecular Weight: 356.22

Keep away from moisture, Keep away from direct sunlight

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	Thiamphenicol (Dextrosulphenidol) is a methylsulfonyl analog of chloramphenicol. It is an antibiotic and immunosuppressive agent.
Targets(IC50)	Antibacterial, Antibiotic

Solubility Information

Solubility	DMSO: 200 mg/mL (561.45 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (5.61 mM), Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (28.07 mM), Solution. <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	2.8073 mL	14.0363 mL	28.0725 mL
5 mM	0.5615 mL	2.8073 mL	5.6145 mL
10 mM	0.2807 mL	1.4036 mL	2.8073 mL
50 mM	0.0561 mL	0.2807 mL	0.5615 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

Berman HM, et al. Nucleic Acids Res. 2000 Jan 1; 28(1): 235-42.

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