

Chlortetracycline

Chemical Properties

CAS No.:	57-62-5
Formula:	C ₂₂ H ₂₃ ClN ₂ O ₈
Molecular Weight:	478.88
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Chlortetracycline is a broad-spectrum antibiotic tetracycline with a 7-chloro substitution. It inhibits growth of both Gram-negative and Gram-positive bacteria by inhibiting protein synthesis.
-------------	--

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.088 mL	10.441 mL	20.882 mL
5 mM	0.418 mL	2.088 mL	4.176 mL
10 mM	0.209 mL	1.044 mL	2.088 mL
50 mM	0.042 mL	0.209 mL	0.418 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Chen Z, Wang Y, Wen Q. Effects of chlortetracycline on the fate of multi-antibiotic resistance genes and the microbial community during swine manure composting. Environ Pollut. 2018 Jun;237:977-987. doi: 10.1016/j.envpol.2017.11.009. Epub 2017 Nov 11. PubMed PMID: 29137887.

Inhibitors · Natural Compounds · Compound Libraries

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:36 Washington Street,Wellesley Hills,MA 02481