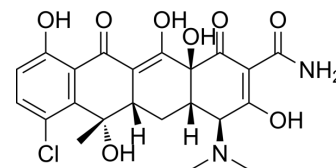


Chlortetracycline hydrochloride

Cat. No.:	HY-B1327
CAS No.:	64-72-2
Molecular Formula:	C ₂₂ H ₂₄ Cl ₂ N ₂ O ₈
Molecular Weight:	515.34
Target:	Bacterial; Antibiotic; Parasite
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



H-Cl

SOLVENT & SOLUBILITY

In Vitro

 H₂O : 5 mg/mL (9.70 mM); ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9405 mL	9.7023 mL	19.4047 mL
	5 mM	0.3881 mL	1.9405 mL	3.8809 mL
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Chlortetracycline hydrochloride (7-Chlorotetracycline hydrochloride) is a specific and potent calcium ionophore antibiotic, inhibits binding of aminoacyl-tRNA to ribosomes.

IC₅₀ & Target

Tetracycline

CUSTOMER VALIDATION

- Chemosphere. 2019 Jun;225:378-387.
- Sci Rep. 2022 Aug 25;12(1):14502.
- Saudi Pharm J. 2021 Apr 23.

 See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Elmund GK, et al. Role of excreted chlortetracycline in modifying the decomposition process in feedlot waste. Bull Environ Contam Toxicol. 1971 Mar-Apr;6(2):129-32.
- [2]. Saling PM, et al. Mouse gamete interactions during fertilization in vitro. Chlortetracycline as a fluorescent probe for the mouse sperm acrosome reaction. J Cell Biol. 1979 Dec;83(3):544-55.
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Caution: Product has not been fully validated for medical applications. For research use only.

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