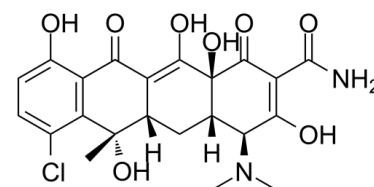


Data Sheet

Product Name:	Chlortetracycline (hydrochloride)
Cat. No.:	CS-4853
CAS No.:	64-72-2
Molecular Formula:	C ₂₂ H ₂₄ Cl ₂ N ₂ O ₈
Molecular Weight:	515.34
Target:	Bacterial
Pathway:	Anti-infection
Solubility:	DMSO : < 1 mg/mL (insoluble or slightly soluble); H ₂ O : 6.66 mg/mL (12.92 mM; Need ultrasonic and warming)



H-Cl

BIOLOGICAL ACTIVITY:

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

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.

CAIndexNames:

2-Naphthacenecarboxamide, 7-chloro-4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahydroxy-6-methyl-1,11-dioxo-, hydrochloride (1:1), (4S,4aS,5aS,6S,12aS)-

SMILES:

O=C(C(C1=O)=C(O)[C@@H](N(C)C)[C@]2([H])C[C@]3([H])[C@](C)(O)C4=C(C(C3=O)[C@@]21O)=O)C(O)=CC=C4Cl)N.[H]Cl

Caution: Product has not been fully validated for medical applications. For research use only.

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