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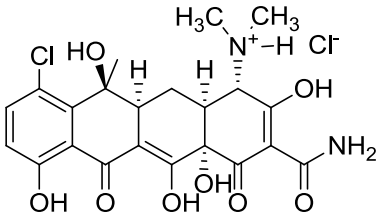
PRODUCT DATA SHEET

Chlortetracycline hydrochloride

Code No.: **BIA-C1506**

Pack sizes: **5 mg, 25 mg**



Synonyms : 7-Chlortetracycline hydrochloride, NSC 13252

Specifications

CAS #	:	**64-72-2**
Molecular Formula	:	**$C_{22}H_{24}Cl_2N_2O_8$**
Molecular Weight	:	**515.3**
Source	:	***Streptomyces* sp.**
Appearance	:	**Yellow to orange solid**
Purity	:	**>99% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.**

Application Notes

Chlortetracycline hydrochloride is a salt prepared from chlortetracycline taking advantage of the basic dimethylamino group which protonates and readily forms the salt in hydrochloric acid solutions. The hydrochloride is the preferred formulation for pharmaceutical applications. Like all tetracyclines, chlortetracycline shows broad spectrum antibacterial and antiprotozoan activity and acts by binding to the 30S and 50S ribosomal sub-units, blocking protein synthesis.

References

1. Aureomycin, a new antibiotic. Broschard R.W. et al. Science 1949, 109, 199.
2. Chemical stability of chlortetracycline and chlortetracycline degradation products and epimers in soil interstitial water. Soeborg T. et al. Chemosphere 2004, 57, 1515.

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