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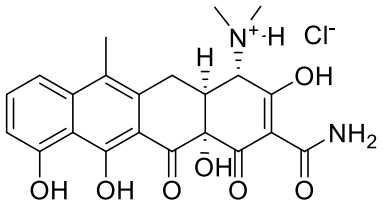
PRODUCT DATA SHEET

Anhydrotetracycline hydrochloride

Code No.: **BIA-A1340**

Pack sizes: **1 mg, 5 mg**



Synonyms : -

Specifications

CAS #	:	**13803-65-1**
Molecular Formula	:	**$C_{22}H_{23}ClN_2O_7$**
Molecular Weight	:	**462.9**
Source	:	**Semi-synthetic**
Appearance	:	**Yellow solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO. Moderate water solubility.**

Application Notes

Anhydrotetracycline hydrochloride is a salt of a degradation product of tetracycline, formed by dehydration at the C6 position under acidic conditions to aromatise the B ring. Anhydrotetracycline is an important standard for monitoring tetracycline stability. Although the degradation is associated with a loss of antibiotic activity, anhydrotetracycline is considered biologically active and is thought responsible for aspects of tetracycline toxicity.

References

1. Kinetics of concomitant degradation of tetracycline to epitetracycline, anhydrotetracycline, and epianhydrotetracycline in acid phosphate solution. Yuen P. H. & Sokoloski T.D. J. Pharm. Sci. 1977, 66, 1648.

For in vitro laboratory use only. Not for human or animal use.

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