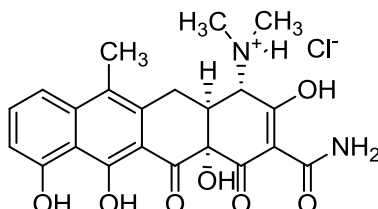


Anhydrotetracycline hydrochloride

Code No.: **BIA-A1340**

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



Synonyms :

Specifications

CAS #	: 13803-65-1
Molecular Formula	: C₂₂H₂₃ClN₂O₇
Molecular Weight	: 462.9
Source	: Semi-synthetic
Appearance	: Yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or 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.