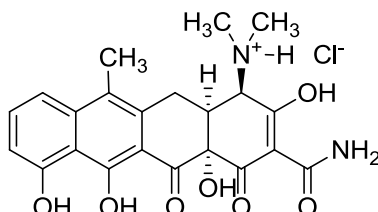


Epianhydrotetracycline hydrochloride

Code No.: **BIA-E1341**

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



Synonyms : 4-Epianhydrotetracycline hydrochloride

Specifications

CAS #	: 4465-65-0
Molecular Formula	: C ₂₂ H ₂₃ ClN ₂ O ₇
Molecular Weight	: 462.9
Source	: Semi-synthetic
Appearance	: Orange solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

Epianhydrotetracycline is a secondary degradation product formed by epimerisation of tetracycline and dehydration at the C6 position to aromatise the B ring. Epianhydrotetracycline is an important standard for monitoring tetracycline stability. Although the degradation is associated with a loss of antibiotic activity, epianhydrotetracycline is considered biologically active and is thought responsible for aspects 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.