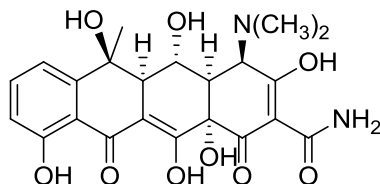


Epioxytetracycline

Code No.: **BIA-E1342**

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



Synonyms : 4-Epioxytetracycline

Specifications

CAS #	: 14206-58-7
Molecular Formula	: C ₂₂ H ₂₄ N ₂ O ₉
Molecular Weight	: 460.4
Source	: Semi-synthetic
Appearance	: Light grey solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

Epioxytetracycline is a degradation product of oxytetracycline formed by the epimerisation of the dimethylamino group at C4 in solution at neutral to acidic pH. The epimerisation is associated with a loss of antibiotic activity. Epioxytetracycline is an important standard for monitoring oxytetracycline stability.

References

1. Reversed-phase high-performance liquid chromatographic method for the assay of oxytetracycline. Barnes W.N. J. Chromatog. 1985, 347, 173.
2. Quantitative analysis of oxytetracycline and its impurities by LC-MS-MS. Lykkeberg A.K. Int. J. Pharm. 2004, 34, 325.