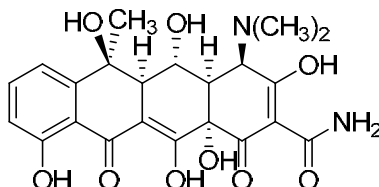


Epioxytetracycline

Code: **BIA-E1342**

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



Synonyms : **4-Epioxytetracycline**

Specifications

CAS # : **14206-58-7**
Molecular Formula : **C₂₂H₂₄N₂O₉**
Molecular Weight : **460.44**
Source : **Semi-synthetic**
Appearance : **Light grey solid**
Purity : **>95%**
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.