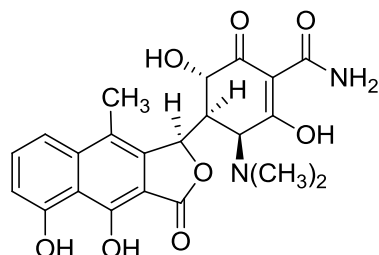


## α-Apooxytetracycline

Code No.: **BIA-A1343**

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



Synonyms :

### Specifications

CAS #	: <b>18695-01-7</b>
Molecular Formula	: <b>C<sub>22</sub>H<sub>22</sub>N<sub>2</sub>O<sub>8</sub></b>
Molecular Weight	: <b>442.4</b>
Source	: <b>Semi-synthetic</b>
Appearance	: <b>Brown solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</b>

### Application Notes

α-Apooxytetracycline is a degradation product of oxytetracycline, formed under acidic conditions. After initial dehydration to anhydrooxytetracycline, it undergoes an internal cyclisation of the C5-OH to the C12 ketone. The resulting cleavage of the C12-C12a bond generates two isomers, α- and β-apooxytetracycline. α-Apooxytetracycline 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. et al., J. Chromatog. 1985, 347, 173.
2. Quantitative analysis of oxytetracycline and its impurities by LC-MS-MS. Lykkeberg A.K. et al., Int. J. Pharm. 2004, 34, 325.
3. Terramycin. VI. The structure of 4- and 6-apoterramycin, acid rearrangement products of terramycin. Hochstein F.A. et al., J. Am. Chem. Soc. 1952, 74, 3707.