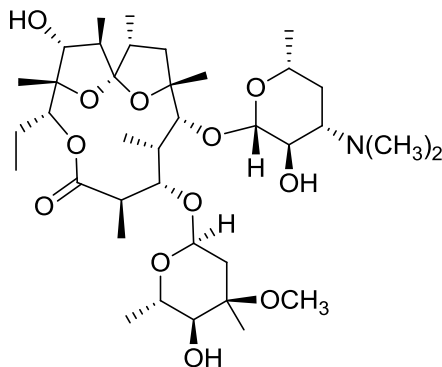


## Anhydroerythromycin A

Code No.: **BIA-A1348**

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



Synonyms : Erythromycin anhydride

### Specifications

CAS #	: 23893-13-2
Molecular Formula	: C <sub>37</sub> H <sub>65</sub> NO <sub>12</sub>
Molecular Weight	: 715.9
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

### Application Notes

Anhydroerythromycin A is a degradation product of erythromycin formed by a complex internal rearrangement of erythromycin A on exposure to acidic conditions. In acid, erythromycin A forms the enol ether and then undergoes a second internal cyclisation of the C12-OH and C9 enol to afford the ketal, anhydroerythromycin A. Anhydroerythromycin A is an important analytical standard for erythromycin A stability studies.

### References

1. Acid degradation of erythromycin A and erythromycin. Kurath B.P. et al., *Experientia* 1971, 27, 362.
2. Erythromycin. X. I Structure of erythromycin. Wiley P.F. J. Am. Chem. Soc. 1957, 79, 6062.