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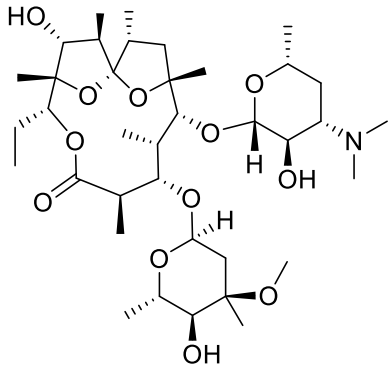
PRODUCT DATA SHEET

Anhydroerythromycin A

Code No.: **BIA-A1348**

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



Synonyms : Erythromycin anhydride

Specifications

CAS #	:	**23893-13-2**
Molecular Formula	:	**$C_{37}H_{65}NO_{12}$**
Molecular Weight	:	**715.9**
Source	:	**Semi-synthetic**
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, 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.

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