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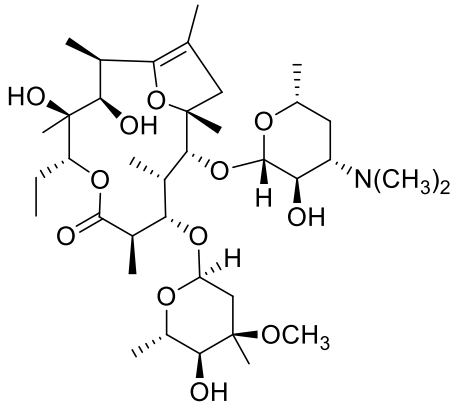
PRODUCT DATA SHEET

Erythromycin A enol ether

Code No.: **BIA-E1347**

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



Synonyms :

Specifications

CAS #	:	**33396-29-1**
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 ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Erythromycin A enol ether is a degradation product of erythromycin formed under acidic conditions by C6–OH internal attack on the C9 ketone to produce a cyclic enol ether. The rearrangement results in a loss of antibiotic activity. This single reaction was the prime driver for the development of second and third generation erythromycins. Erythromycin A enol ether is an important standard for stability studies.

References

1. Decomposition kinetics of erythromycin A in acidic solutions. Cachet T. et al., Int. J. Pharm. 1989, 55, 59.
2. A new mechanism for the decomposition of erythromycin A in acidic medium. Vinckier C. et al., Int. J. Pharm, 1989, 55, 67.

Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com