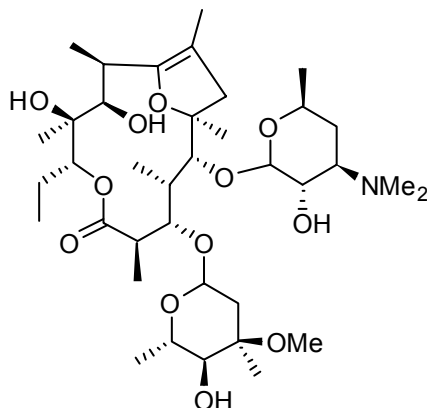


## Erythromycin A enol ether

Code: **BIA-E1347**

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



Synonyms :

### Specifications

CAS #	: 33396-29-1
Molecular Formula	: C <sub>37</sub> H <sub>65</sub> NO <sub>12</sub>
Molecular Weight	: 715.9
Source	: <b>Semi-synthetic</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt;98%</b>
Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</b>

### 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.