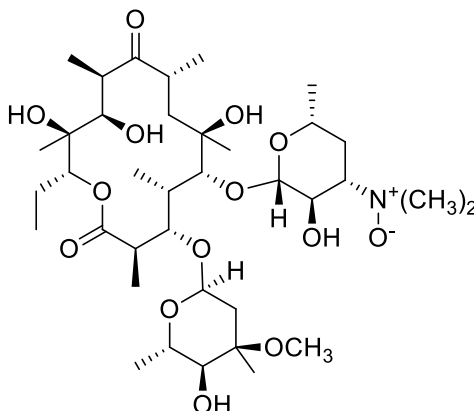


## Erythromycin A N-oxide

Code No.: **BIA-E1539**

Pack sizes: **5 mg, 25 mg**



Synonyms : Erythromycin N-oxide

### Specifications

CAS #	: 992-65-4
Molecular Formula	: C <sub>37</sub> H <sub>67</sub> NO <sub>14</sub>
Molecular Weight	: 749.9
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Moderate water solubility.

### Application Notes

Erythromycin A N-oxide is a minor analogue of the erythromycin complex isolated from *Saccharopolyspora erythraea*. The N-oxide is a facile metabolite formed in vivo which can revert to erythromycin A under reducing conditions. Despite its synthetic preparation in the 1950s, the biological activity of erythromycin A N-oxide has not been extensively studied.

### References

1. Erythromycin. I. Properties and degradation studies. Flynn E.H. et al., J. Am. Chem. Soc. 1954, 76, 3121.
2. Cosynthesis of erythromycin A N-oxide by mutants of *Saccharopolyspora erythraea* blocked in erythromycin production. Blauauerova M. et al., Folia Microbiol. 1991, 36, 533.
3. Isolation of erythromycin A N-oxide and pseudoerythromycin A hemiketal from fermentation broth of *Saccharopolyspora erythraea* by thin-layer and high-performance liquid chromatography. Beran M. et al., J. Chromatography A 1991, 558, 265.