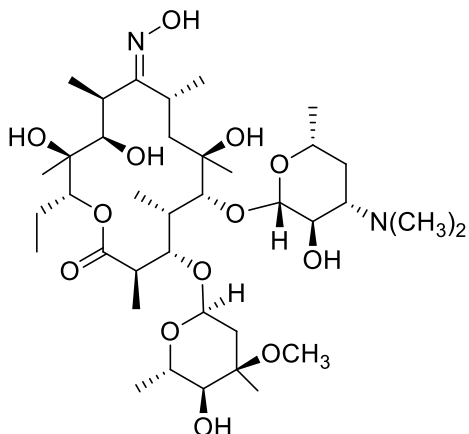


## Erythromycin A oxime

Code No.: **BIA-E1381**

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



Synonyms :

### Specifications

CAS #	: 111321-02-9
Molecular Formula	: C <sub>37</sub> H <sub>68</sub> N <sub>2</sub> O <sub>13</sub>
Molecular Weight	: 749
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

### Application Notes

Erythromycin A 9-oxime is a semi-synthetic analogue of erythromycin prepared as means of overcoming acid lability and improving oral absorption of erythromycin A while retaining comparable antibacterial potency. Although not developed as a commercial product, erythromycin oxime was pivotal in the development of the ring expanded aza-erythromycins (e.g. azithromycin) and the oxime ethers (e.g. roxithromycin).

### References

1. New ether oxime derivative of erythromycin A structure-activity relationship study. Gasc J-C. et al., J. Antibiot. 1994, 44, 313.
2. Erythromycin series. Part 11. Ring expansion of erythromycin A oxime by the Beckmann rearrangement. Djokic S. J. Chem. Soc. Perkin Trans. 1986, 1, 1881.