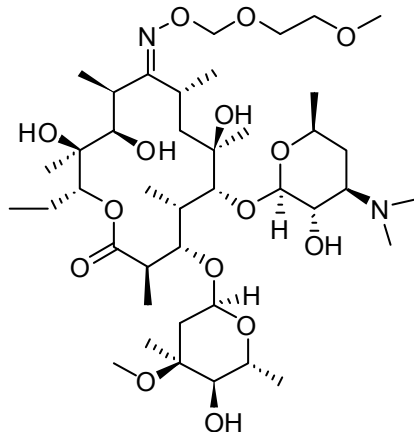


## Roxithromycin

Code: **BIA-R1315**

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



Synonyms : **Erythromycin 9-(-O-[2-methoxyethoxy]methyloxime)**

## Specifications

CAS # : **80214-83-1**  
Molecular Formula : **C<sub>41</sub>H<sub>76</sub>N<sub>2</sub>O<sub>15</sub>**  
Molecular Weight : **837.1**  
Source : **Semi-synthetic**  
Appearance : **White solid**  
Purity : **>98%**  
Storage : **-20°C**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.**

## Application Notes

Roxithromycin was one of the new generation erythromycins introduced in the 1980s. Improved acid stability was achieved by conversion of the 9-keto group to the more stable oxime and alkylation of the oxime to provide the methoxyethoxymethyl ether oxime. In vivo, roxithromycin exhibited higher tissue levels and a longer half-life while being slightly less potent than erythromycin *in vitro*.

## References

1. *In vitro* evaluation of three new macrolide antimicrobial agents, RU 28965, RU 29065, RU 29702, and comparisons with other orally administered drugs. Jones R.N. *et al.* Antimicrob. Agents Chemother. **1983**, 24: 209-215.
2. Antibacterial activity of roxithromycin: a laboratory evaluation. Chantot J-F. *et al.* J. Antibiot. **1986**, 39, 313.