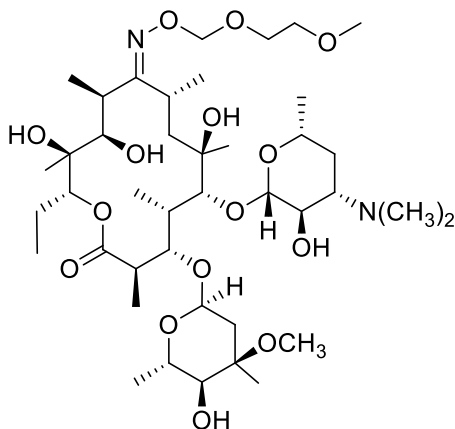


Roxithromycin

Code No.: **BIA-R1315**

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



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

Specifications

| | |
|-------------------|--|
| CAS # | : 80214-83-1 |
| Molecular Formula | : C₄₁H₇₆N₂O₁₅ |
| Molecular Weight | : 837.1 |
| 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

Roxithromycin was one of the new generation erythromycins introduced in the 1980s. Improved acid stability was achieved by converting the 9-keto group to the more stable oxime and alkylation of the oxime to provide the methoxyethoxymethyl ether oxime. In vivo, roxithromycin exhibits 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.