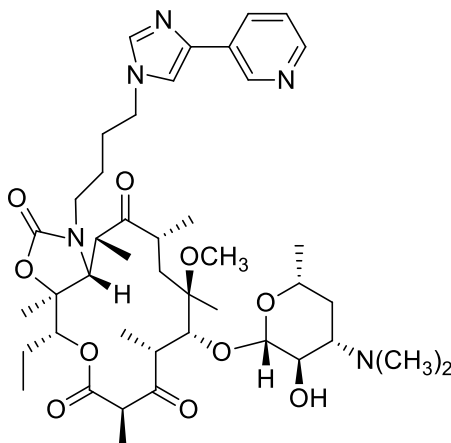


## Telithromycin

Code No.: **BIA-T1316**

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



Synonyms :

### Specifications

CAS #	: 191114-48-4
Molecular Formula	: C <sub>43</sub> H <sub>65</sub> N <sub>5</sub> O <sub>10</sub>
Molecular Weight	: 812
Source	: Semi-synthetic
Appearance	: White to fawn solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

### Application Notes

Telithromycin represents the first member of the current generation of erythromycin descendants, belonging to the ketolide class. The ketolides are characterised by the hydrolysis of the cladinose sugar and subsequent oxidation of the alcohol to a ketone. Telithromycin is acid stable and has good activity against erythromycin-resistant *S. aureus*, and improved pharmacokinetics.

### References

1. Synthesis and antibacterial activity of HMR 3647, a new ketolide highly potent against erythromycin-resistant and susceptible pathogens. Denis A. et al., Biorg. Med. Chem. Letter 1999, 9, 3075.
2. In vitro activities of two ketolides HMR 3647 and HMR 3004 against gram-positive bacteria. Saez-Nieto J.A. & Vazquez C.L. Antimicrob. Agents Chemother. 1999, 43, 930.
3. Inhibition of translation and 50S ribosomal subunit formation in *S. aureus* all by 11 different ketolide antibiotics. Champney W.S. & Tober C.L. Curr. Microbiol. 1998, 37, 418.