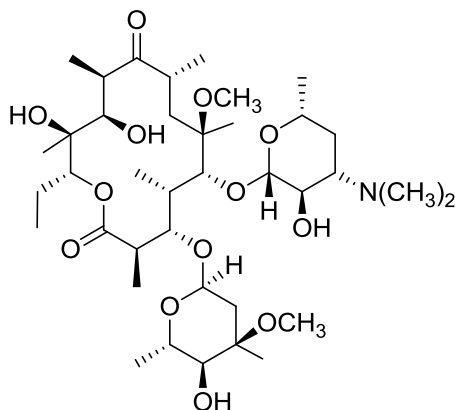


Clarithromycin

Code No.: **BIA-C1313**

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



Synonyms : 6-O-Methylerythromycin A

Specifications

CAS #	: 81103-11-9
Molecular Formula	: C₃₈H₆₉NO₁₃
Molecular Weight	: 748.0
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >98% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

Clarithromycin (6-methoxyerythromycin) is a macrolide antibiotic active against a broad range of Gram positive bacteria. Clarithromycin was designed to enhance acid stability and improve oral bioavailability compared with erythromycin which is highly unstable to acidic conditions, undergoing a series of internal ketalisations between the 9-keto moiety and alcohols at C6 and C11. Omura and colleagues found that protection of the labile 6-OH group by methylation provided a simple but elegant solution.

References

1. Chemical modification of erythromycins. I. Synthesis and antibacterial activity of 6-O-methylerythromycin A. Morimoto S. et al., J. Antibiot. 1984, 37, 187.
2. Macrolide antibiotics. Chemistry, biology and practice. Ed. Omura S. Academic Press 2002.