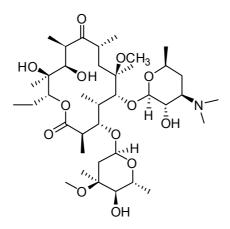


PRODUCT DATA SHEET

Clarithromycin

Code: BIA-C1313

Pack sizes: 5 mg, 25 mg



Synonyms

: 6-O-methylerythromycin A

Specifications

CAS #	:	81103-11-9
Molecular Formula	:	C ₃₈ H ₆₉ NO ₁₃
Molecular Weight	:	748.0
Source	:	Semi-synthetic
Appearance	:	White solid
Purity	:	>98%
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-Omethylerythromycin A. Morimoto S. *et al.* J. Antibiot. **1984**, 37, 187.
- 2. Macrolide antibiotics. Chemistry, biology and practice. Ed. Omura S. Academic Press 2002.