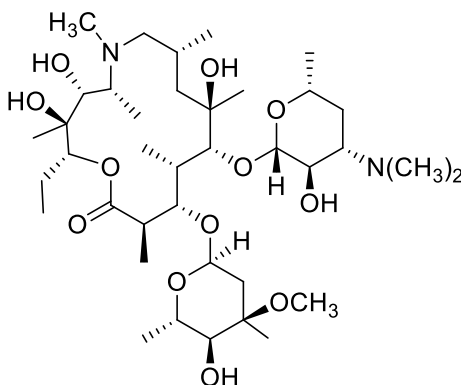


Azithromycin

Code No.: **BIA-A1312**

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



Synonyms :

Specifications

CAS #	:	83905-01-5
Molecular Formula	:	C₃₈H₇₂N₂O₁₂
Molecular Weight	:	749
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

Azithromycin is a semi-synthetic, ring-expanded erythromycin produced by a Beckmann rearrangement of erythromycin oxime and reduction to the imine ether, followed by reductive methylation. Azithromycin was the first of the azalides and was designed to improve the stability and biological half-life of erythromycin A, as well as improve activity against Gram negative bacteria. Since its discovery in 1980 by Djokic and co-workers, azithromycin has enjoyed considerable therapeutic success.

References

- 11-Aza-10-deoxo-10-dihydroerythromycin A and derivatives thereof as well as a process for their preparation. Kobrehel G. et al., 1982, U.S. Patent 4,328,334.
- Erythromycin series. XII Antibacterial in vitro evaluation of 10-dihydro-10-deoxo-11-azaerythromycin A: Synthesis and structure-activity relationship of its acyl derivatives. Djokic S. et al., J. Antibiot. 1987, 40, 1006.