

Product Name: Erythromycin B, EvoPure[®]

Product Number: E021

CAS Number: 527-75-3

Molecular Formula: $C_{37}H_{67}NO_{12}$

Molecular Weight: 717.92

Form: Powder

Storage Conditions: -20°C

Description: Erythromycin B, EvoPure[®] is a highly purified form of erythromycin B, an active component of Erythromycin. Other components include A, C, and D. Erythromycin B has a similar MICs to A but is slightly less active. Erythromycin B lacks a hydroxyl group at C12 that Erythromycin A has, allowing it to retain antibacterial activity in acidic environments unlike Erythromycin A.

For other Erythromycin products, [click here](#).

Mechanism of Action: Macrolide antibiotics inhibit bacterial growth by targeting the 50S ribosomal subunit preventing peptide bond formation and translocation during protein synthesis. Resistance to erythromycin is commonly attributed to mutations in 50S rRNA preventing erythromycin binding allowing the cell to synthesize proteins free of error.

References: Kibwage, IO et al. (1985) Antibacterial activities of erythromycins A, B, C, and D and some of their derivatives. Antimicrob. Agents Chemother 28(4): 630-33

Tyson, Paul et al (2011) Erythromycin B: Conformational analysis and antibacterial activity. Med. Chem. Comm. 2:331-36