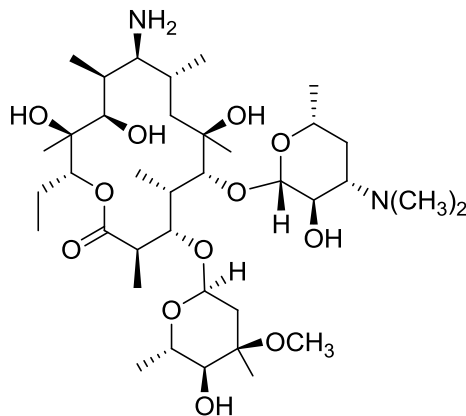


Erythromyclamine

Code No.: **BIA-E1517**

Pack sizes: **1 mg, 5 mg**



Synonyms : 9(S) Erythromyclamin A, BRL 42852ER, LY 024410

Specifications

CAS #	: 26116-56-3
Molecular Formula	: C ₃₇ H ₇₀ N ₂ O ₁₂
Molecular Weight	: 735.0
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

Erythromyclamine is a semi-synthetic analogue of erythromycin prepared by reduction of erythromycin oxime. Erythromyclamine is a potent antibiotic, however the introduction of the amino- moiety increases the compound's polarity and is disadvantageous for in vivo use. This limitation was overcome by the synthesis of dirithromycin, a Schiff base pro-drug that dissociates in vivo to erythromyclamine.

References

1. Erythromycin. VIII. Structure of dihydroerythronolide. Gerzon K. et al. J. Am. Chem. Soc. 1956, 78, 6396
2. Synthesis and antimicrobial evaluation of dirithromycin (AS-E 136: LY237216), a new macrolide antibiotic derived from erythromycin. Counter F.T. et al. Antimicrob. Agents Chemother. 1991, 35, 1116.
3. Dirithromycin: Introduction and historical development. Kirst H.A. Drugs Today 1995, 31, 89.

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