

Product Name: Erythromyclamine

Product Number: E057

CAS Number: 26116-56-3

Molecular Formula: $C_{37}H_{70}N_2O_{12}$

Molecular Weight: 735.0

Appearance: White solid

Storage Conditions: -20°C

Description: 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.

Erythromyclamine is soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

References: Erythromycin. VIII. Structure of dihydroerythronolide. Gerzon K. et al. J. Am. Chem. Soc. 1956, 78, 6396

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.

Dirithromycin: Introduction and historical development. Kirst H.A. Drugs Today 1995, 31, 89.