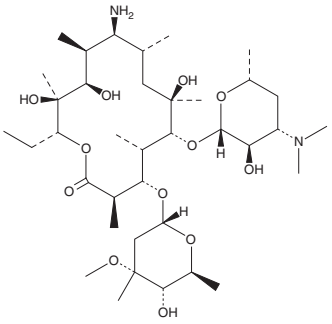
PRODUCT INFORMATION

Erythromycylamine

Item No. 28098



CAS Registry No.:	26116-56-3
Formal Name:	(9S)-9-amino-9-deoxo-erythromycin
Synonyms:	BRL 42852ER, 9(S)-Erythromycylamine, LY024410
MF:	$C_{37}H_{70}N_2O_{12}$
FW:	735.0
Purity:	≥95%
UV/Vis.:	λ_{max}: 269 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Erythromycylamine is supplied as a solid. A stock solution may be made by dissolving the erythromycylamine in the solvent of choice, which should be purged with an inert gas. Erythromycylamine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of erythromycylamine in ethanol is approximately 30 mg/ml and approximately 15 mg/ml in DMSO and DMF.

Erythromycylamine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, erythromycylamine should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Erythromycylamine has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Erythromycylamine is a macrolide antibiotic and an active metabolite of dirithromycin (Item No. 19466).[1] It is active against a variety of bacteria, including strains of *S. pyogenes*, *S. pneumoniae*, *L. monocytogenes*, and *B. pertussis* (MICs = 0.06-0.12, 0.06-0.12, 1-2, and 0.015-0.25 µg/ml, respectively). It is also active against 28 clinical isolates of *M. avium* complex (MAC) isolated from patients with AIDS (MICs = 4-16 µg/ml).[2] Erythromycylamine inhibits polylysine and polyproline synthesis in a cell-free assay.[3]

References

1. Hardy, D.J., Hensey, D.M., Beyer, J.M., *et al.* Comparative in vitro activities of new 14-, 15-, and 16-membered macrolides. *Antimicrob. Agents Chemother.* **32(11)**, 1710-1719 (1988).
2. Naik, S. and Ruck, R. In vitro activities of several new macrolide antibiotics against *Mycobacterium avium* complex. *Antimicrob. Agents Chemother.* **33(9),** 1614-1616 (1989).
3. Matijašević, P., Franjić, N., Đokić, S., *et al.* Erythromycin series. X. Inhibitory activity of several new erythromycin derivatives in cell-free amino acid polymerization systems. *Croat. Chem. Acta* **53(3),** 519-524 (1980).

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