



LKT Laboratories, Inc.

## Erythromycin

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### Product Information

**Product ID** E6994

**CAS No.** 114-07-8

**Chemical Name** Erythromycin A

**Synonym** Abomacetin, Aknin, EMU, E-Mycin, Erymax, Erycen, Erycin.

**Formula** C<sub>37</sub>H<sub>67</sub>NO<sub>13</sub>

**Formula Wt.** 733.93

**Melting Point** 135-140 °C

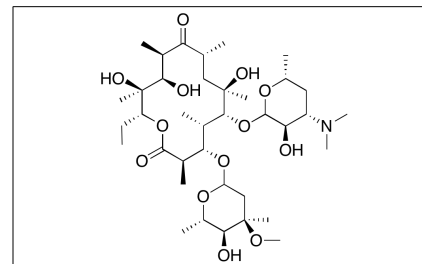
**Purity** ≥94%

**Solubility** Very slightly soluble in water (~2 mg/ml). Freely soluble in alcohols, acetone, ethyl acetate, acetonitrile or chloroform

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Erythromycin is a macrolide antibiotic that binds the 50s subunit of bacterial ribosomes, inhibiting protein synthesis by preventing transfer of tRNA from the A site to the P site. This compound displays antibacterial activity against both gram positive and gram negative bacteria; it also inhibits mammalian mRNA splicing.



**Bulk quantities available upon request**

Product ID	Size
E6994	5 g
E6994	25 g
E6994	100 g

**References** Hertweck M, Hiller R, Mueller MW. Inhibition of nuclear pre-mRNA splicing by antibiotics in vitro. *Eur J Biochem.* 2002 Jan;269(1):175-83. PMID: 11784311.

Menninger JR, Otto DP. Erythromycin, carbomycin, and spiramycin inhibit protein synthesis by stimulating the dissociation of peptidyl-tRNA from ribosomes. *Antimicrob Agents Chemother.* 1982 May;21(5):811-8. PMID: 6179465.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.