

FT-09081T

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+33 4 70 03 73 06 interbiotech@interchim.com

Erythromycin

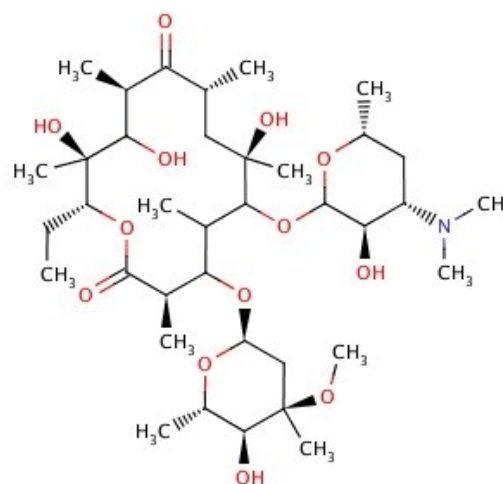
A macrolide antibiotic protein synthesis inhibitor

Product Description

Catalog #: 09081T, 5g
Name : **Erythromycin**
 Abomacetin
 CAS: 114-07-8
Properties : Structure: C₃₇H₆₇NO₁₃
 MW: 733.9 g/mol
 Purity: >92%
 Melting point: 135-140 °C (lit.)
 Boiling point: 818.4 °C at 760 mmHg (Predicted)
 Density : 1.2 g/cm³ (Predicted)
 pK_a : 8.8 (Predicted)
 Solubility : 2 M HCl (50 mg/ml), ethanol, water (50 mg/ml), methanol, and chloroform

Storage : -20°C

For Research Use Only



Erythromycin is a potent macrolide inhibitor of CYP3A4 with antiinflammatory and prokinetic properties. Macrolides belong to a group of antibiotics that bind to the 50S ribosomal subunit and inhibit protein synthesis. Erythromycin is derived from *Streptomyces erythreus* and has been shown to inhibit NF-κB transcriptional activation, which leads to the inhibition of cytokine gene expression of IL-8 and IL-6. This mechanism was shown to occur via calcineurin-independent signaling T lymphocytes.

References

1. Weisblum, B. 1984. Br. Med. Bull. 40: 47-53. PMID: 6442874
2. Aoki, Y., et al. 1999. Antimicrob. Agents Chemother. 43: 2678-2684. PMID: 10543746
3. Tran, J.Q., et al. 1999. J Clin Pharmacol. 39: 513-519. PMID: 10234600
4. Tokairin, T., et al. 2005. Br J Clin Pharmacol. 60: 172-175. PMID: 16042670
5. Berthet, S., et al. 2010. J Visc Surg. 147: e13-e18. PMID: 20655290

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.

Please inquire for higher quantities (availability, shipment conditions).

Please contact InterBioTech – Interchim for any other information

Hotline : +33(0)4 70 03 73 06 – Interbiotech@interchim.com

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