



LKT Laboratories, Inc.

Roxithromycin

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Product Information

Product ID R5992

CAS No. 80214-83-1

Chemical Name Erythromycin 9-[-O-[(2-methoxyethoxy)methyl]- oxime]

Synonym Rulide, Surlid, Rotramin, Claramid, Overal, Rossitrol

Formula C₄₁H₇₆N₂O₁₅

Formula Wt. 837.05

Melting Point 115-120° C

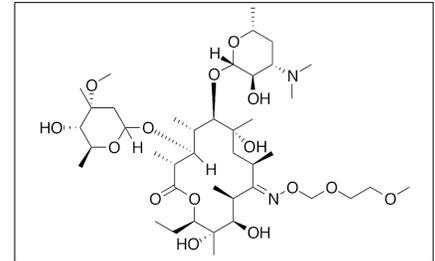
Purity ≥96%

Solubility Soluble in HCl, and NaOH.
Slightly soluble in alcohol
and water. Soluble in
chloroform (10 mg/mL).

Store Temp 4° C

Ship Temp Ambient

Description Roxithromycin is a semi-synthetic macrolide antibiotic that exhibits anti-inflammatory, anti-asthma, vasodilatory, antibacterial, and anti-arthritis activities; it binds to the 50S ribosome, inhibiting protein synthesis. In animal models of ovalbumin-induced asthma, roxithromycin decreases the number of inflammatory cells and airway hyperresponsiveness and suppresses levels of IgE, inflammatory cytokines, and activated NF-κB. Roxithromycin also induces vascular relaxation ex vivo in arteries and thoracic aorta segments. In macrophages, this compound inhibits T cell production of TNF-α and IL-6; in animal models of arthritis, it inhibits T cell migration and decreases disease severity.



Bulk quantities available upon request

Product ID	Size
R5992	1 g
R5992	5 g
R5992	10 g

References Ci X, Chu X, Xu X, et al. Short-term roxithromycin treatment attenuates airway inflammation via MAPK/NF-κB activation in a mouse model of allergic asthma. *Inflamm Res.* 2012 Jul;61(7):749-58. PMID: 22481373.

Biava M, Porretta GC, Deidda D, et al. New trends in development of antimycobacterial compounds. *Infect Disord Drug Targets.* 2006 Jun;6(2):159-72. PMID: 16789877.

Urasaki Y, Nori M, Iwata S, et al. Roxithromycin specifically inhibits development of collagen induced arthritis and production of proinflammatory cytokines by human T cells and macrophages. *J Rheumatol.* 2005 Sep;32(9):1765-74. PMID: 16142877.

Berman M, Hasdai D, Raanani E, et al. Ex-vivo effect of roxithromycin on human and rat arterial vasoactivity. *Interact Cardiovasc Thorac Surg.* 2005 Jun;4(3):232-7. PMID: 17670399.

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