



Product Information

Product ID R1985

CAS No. 134615-37-5

Chemical Name Butanedioic acid, mono(3-butyl-8-(9-carboxy-6-hydroxy-3,7-dimethyl-2,4,8-nonatrienyl)-2-(4-carboxy-3-methyl-1,3-butadienyl)-9-methyl-1,7-dioxaspiro(5.5)undec-3-yl) ester

Synonym

Formula C₃₆H₅₂O₁₁

Formula Wt. 660.79

Melting Point 95 °C

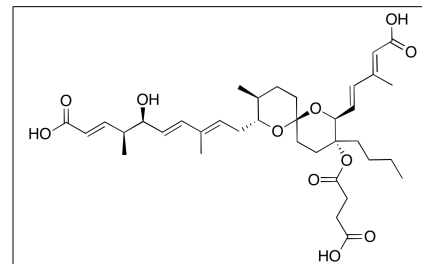
Purity ≥98%

Solubility Soluble in DMF, DMSO, ethanol, ethyl acetate or methanol.

Store Temp -20 °C

Ship Temp Ambient

Description Reveromycin A is an osteoclast-targeting antibiotic compound that exhibits anti-resorptive and antifungal activities. In animal models of juvenile Paget's disease, reveromycin A inhibits bone resorption and normalizes bone turnover and formation. Reveromycin A inhibits isoleucyl-tRNA synthase, preventing protein synthesis in osteoclasts; this induces apoptosis and prevents resorption in vivo. Additionally, reveromycin A inhibits bone metastasis by lung cancer cells.



Bulk quantities available upon request

Product ID	Size
R1985	100 µg
R1985	5 x 100 µg

References Yabumoto T, Miyazawa K, Tabuchi M, et al. Stabilization of tooth movement by administration of reveromycin A to osteoprotegerin-deficient knockout mice. *Am J Orthod Dentofacial Orthop.* 2013 Sep;144(3):368-80. PMID: 23992809.

Hiraoka K, Zenmyo M, Watari K, et al. Inhibition of bone and muscle metastases of lung cancer cells by a decrease in the number of monocytes/macrophages. *Cancer Sci.* 2008 Aug;99(8):1595-602. PMID: 18754872.

Woo JT, Kawatani M, Kato M, et al. Reveromycin A, an agent for osteoporosis, inhibits bone resorption by inducing apoptosis specifically in osteoclasts. *Proc Natl Acad Sci U S A.* 2006 Mar 21;103(12):4729-34. PMID: 16537392.

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