



LKT Laboratories, Inc.

Oligomycin

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Product Information

Product ID O4533

CAS No. 1404-19-9

Chemical Name

Synonym Oligomycin complex

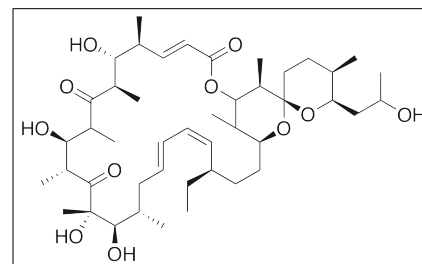
Formula

Formula Wt.

Melting Point 84-100°C

Purity ≥97%

Solubility Soluble in ethanol, DMSO, acetone.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
O4533	1 mg	\$56.50
O4533	5 mg	\$146.40
O4533	10 mg	\$287.20

Store Temp 4°C

Ship Temp Ambient

Description This product consists of a mixture of oligomycins A, B and C. Oligomycins are macrolide antibiotics that exhibit antibacterial activity. Oligomycins suppress oxidative phosphorylation in the mitochondria by inhibiting K⁺-activated current of the Na⁺/K⁺ ATPase. In vitro, oligomycins inhibit IFN-γ- and TNF-α-induced reductions in transepithelial resistance and paracellular permeability. Oligomycins also inhibit the increase in expression and phosphorylation of MLC, preventing intestinal epithelial barrier dysfunction induced by inflammatory cytokines.

References Liu H, Wang P, Cao M, et al. Protective role of oligomycin against intestinal epithelial barrier dysfunction caused by IFN-γ and TNF-α. *Cell Physiol Biochem*. 2012;29(5-6):799-808. PMID: 22613980.

Ding Y, Hao J, Rakowski RF. Effects of oligomycin on transient currents carried by Na⁺ translocation of Bufo Na⁺/K⁺-ATPase expressed in Xenopus oocytes. *J Membr Biol*. 2011 Oct;243(1-3):35-46. PMID: 21877177.

Bittar EE. Effect of inhibitors and uncouplers on the Na pump of the Maia muscle fibre. *J Physiol*. 1966 Nov;187(1):81-103. PMID: 5972170.

CHAPPELL JB, CROFTS AR. THE EFFECT OF ATRACTYLATE AND OLIGOMYCIN ON THE BEHAVIOUR OF MITOCHONDRIA TOWARDS ADENINE NUCLEOTIDES. *Biochem J*. 1965 Jun;95:707-16. PMID: 14342506.

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