LKT Laboratories, Inc.

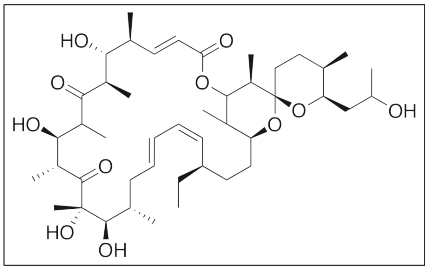
Oligomycin

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

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.

Bulk quanitites available upon request

Product ID	Size
O4533	1 mg
O4533	5 mg
O4533	10 mg

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.