



LKT Laboratories, Inc.

Leptomycin B

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Product Information

Product ID L1761

CAS No. 87081-35-4

Chemical Name 19-(3,6-dihydro-3-methyl-6-oxo-2H-pyran-2-yl)-17-ethyl-6-hydroxy-3,5,7,9,11,15-hexamethyl-8-oxo-2,10,12,16,18-Nonadecapentaenoic acid

Synonym LMB, Elactocin, CI-940, CL-1957A, NSC-364372, PD-114720.

Formula C₃₃H₄₈O₆

Formula Wt. 540.74

Melting Point 41-44 °C

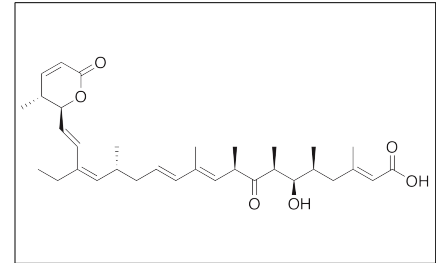
Purity ≥98%

Solubility Soluble in ethanol or methanol.

Store Temp -20 °C

Ship Temp Ambient

Description Leptomycin is a polyketide antibiotic initially produced by *Streptomyces*. Leptomycin exhibits anticancer and antifungal activity. Leptomycin inhibits CRM1, preventing nuclear export of proteins. In lung cancer cells, leptomycin induces G1 phase cell cycle arrest; in cervical carcinoma cells, leptomycin increases activation of p53, inducing apoptosis.



Bulk quantities available upon request

Product ID	Size
L1761	10 µg
L1761	50 µg

References Sun Q, Carrasco YP, Hu Y, et al. Nuclear export inhibition through covalent conjugation and hydrolysis of Leptomycin B by CRM1. *Proc Natl Acad Sci U S A*. 2013 Jan 22;110(4):1303-8. PMID: 23297231.

Abkallo HM, Kawano H, Watanabe K, et al. A new cell-based reporter system for sensitive screening of nuclear export inhibitors. *Drug Discov Ther*. 2011 Dec;5(6):286-92. PMID: 22466439.

Lu C, Shao C, Cobos E, et al. Chemotherapeutic sensitization of leptomycin B resistant lung cancer cells by pretreatment with doxorubicin. *PLoS One*. 2012;7(3):e32895. PMID: 22412944.

Hamamoto T, Gunji S, Tsuji H, et al. Leptomycins A and B, new antifungal antibiotics. I. Taxonomy of the producing strain and their fermentation, purification and characterization. *J Antibiot (Tokyo)*. 1983 Jun;36(6):639-45. PMID: 6874585.

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