



LKT Laboratories, Inc.

Leptomycin A

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Product Information

Product ID L1760

CAS No. 87081-36-5

Chemical Name (2E,10E,12E,16E,18E)-6-hydroxy-3,5,7,9,11,15,17-heptamethyl-19-(3-methyl-6-oxo-2,3-dihydropyran-2-yl)-8-oxononadeca-2,10,12,16,18-pentaenoic acid

Synonym Jildamycin; NSC 369326

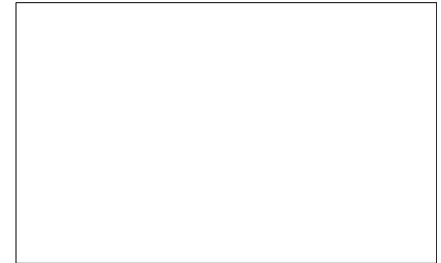
Formula C₃₂H₄₆O₆

Formula Wt. 526.7

Melting Point

Purity ≥98%

Solubility



Bulk quantities available upon request

Product ID	Size
L1760	1 mg
L1760	5 mg

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.

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.