



LKT Laboratories, Inc.

## Leptomycin B

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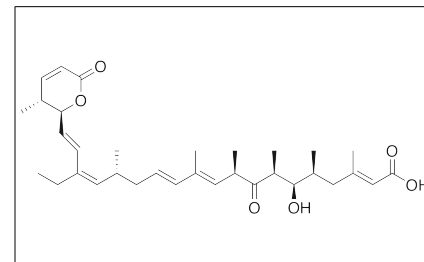
### Product Information

**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** C<sub>33</sub>H<sub>48</sub>O<sub>6</sub>  
**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.



### Pricing and Availability

**Bulk quantities available upon request**

| Product ID | Size  | List Price |
|------------|-------|------------|
| L1761      | 10 µg | \$70.80    |
| L1761      | 50 µg | \$157.40   |

**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.