



LKT Laboratories, Inc.

## Natamycin

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### Product Information

Product ID N0075

CAS No. 7681-93-8

**Chemical Name** 16-(3-Amino-3,6-dideoxy-beta-D-mannopyranosyloxy)-5,6-epoxy-8,12,14-trihydroxy-26-methyl-2,10-dioxo-1-oxacyclohexacos-3,17,19,21,23-pentaen-13-carbonsaeure

**Synonym** Pimaricin, Tennenecin, Mycophyt, Myprozine, Natacyn, Pimaricin.

**Formula** C<sub>33</sub>H<sub>47</sub>NO<sub>13</sub>

**Formula Wt.** 665.73

**Melting Point** 280-300°C (dec)

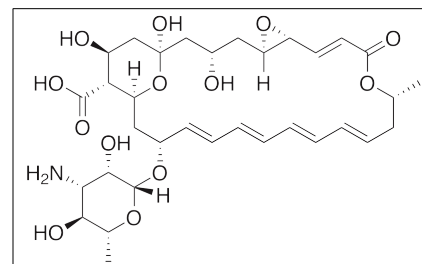
**Purity** ≥98%

**Solubility** Soluble at 20°C in 87% glycerol (0.18g/mL). Practically insoluble in higher alcohols.

**Store Temp** 4°C

**Ship Temp** Ambient

**Description** Natamycin is a polyene macrolide found in *Streptomyces natalensis* that exhibits antifungal and immunostimulatory activities; this compound binds ergosterol, inhibiting membrane fusion. Natamycin is an antimicrobial compound that is clinically used to treat keratitis, displaying great efficacy against *Aspergillus* and *Fusarium*. Natamycin increases activation of the NALP3 inflammasome and secretion of IL-1β by inducing K<sup>+</sup> efflux in dendritic cells; it also activates polyclonal B cells in mouse lymphocytes. Additionally, natamycin is used to improve the shelf life of cheese.



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
N0075	25 mg	\$58.50
N0075	50 mg	\$136.30
N0075	100 mg	\$194.70

**References** Kallinteri LD, Kostoula OK, Savvaidis IN. Efficacy of nisin and/or natamycin to improve the shelf-life of Galotyri cheese. Food Microbiol. 2013 Dec;36(2):176-81. PMID: 24010596.

Thomas PA, Kaliyamurthy J. Mycotic keratitis: epidemiology, diagnosis and management. Clin Microbiol Infect. 2013 Mar;19(3):210-20. PMID: 23398543.

Darisipudi MN, Allam R, Rupanagudi KV, et al. Polyene macrolide antifungal drugs trigger interleukin-1β secretion by activating the NLRP3 inflammasome. PLoS One. 2011;6(5):e19588. PMID: 21625424.

Hammarström L, Smith CI. In vitro activating properties of polyene antibiotics for murine lymphocytes. Acta Pathol Microbiol Scand C. 1977 Aug;85C(4):277-83. PMID: 302553.

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