



# LKT Laboratories, Inc.

## Vancomycin Hydrochloride

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### Product Information

**Product ID** V0252

**CAS No.** 1404-93-9

**Chemical Name** (S(suba))- (3S,6R,7R,22R,23S,26S,36R,38aR)-44-((2-O-(3-Amino-2,3,6-trideoxy-3-C-methyl-alpha-L-lyxo-hexopyranosyl)-beta-D-glucopyranosyl)oxy)-3-(carbamoylmethyl)-10,19-dichloro

**Synonym** Vancomycine, Vancocin, Lyphocin, Vancor

**Formula** C<sub>66</sub>H<sub>75</sub>Cl<sub>2</sub>N<sub>9</sub>O<sub>24</sub> • HCl

**Formula Wt.** 1485.73

**Melting Point** Decomposes when heated.

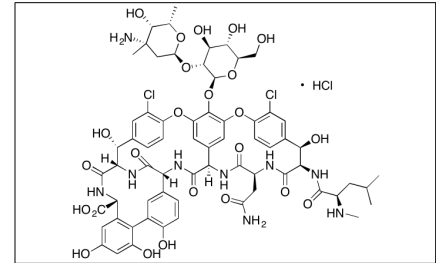
**Purity** ≥1050 IU/mg, bio assay

**Solubility** Soluble in water.  
Moderately soluble in methanol. Insoluble in acetone and ether.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Vancomycin is a glycopeptide antibiotic originally produced by *Acolatopsis orientalis*. Vancomycin exhibits antibacterial activity against gram positive bacteria such as *Clostridium* and *Staphylococcus* by binding D-Ala-D-Ala and inhibiting cell wall synthesis.



**Bulk quantities available upon request**

Product ID	Size
V0252	100 mg
V0252	250 mg
V0252	1 g

**References** Allen CA, Babakhani F, Sears P, et al. Both fidaxomicin and vancomycin inhibit outgrowth of *Clostridium difficile* spores. *Antimicrob Agents Chemother.* 2013 Jan;57(1):664-7. PMID: 23147724.

Chakraborty SP, Sahu SK, Pramanik P, et al. In vitro antimicrobial activity of nanoconjugated vancomycin against drug resistant *Staphylococcus aureus*. *Int J Pharm.* 2012 Oct 15;436(1-2):659-76. PMID: 22841851.

Nailor MD, Sobel JD. Antibiotics for gram-positive bacterial infection: vancomycin, teicoplanin, quinupristin/dalfopristin, oxazolidinones, daptomycin, telavancin, and ceftaroline. *Med Clin North Am.* 2011 Jul;95(4):723-42, vii. PMID: 21679789.

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