



LKT Laboratories, Inc.

Linezolid

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## Product Information

**Product ID** L3453

**CAS No.** 165800-03-3

**Chemical Name** (S)-N-((3-(3-fluoro-4-morpholinophenyl)-2-oxooxazolidin-5-yl)methyl)acetamide

**Synonym** Zyvox, Zyvoxid

**Formula** C<sub>16</sub>H<sub>20</sub>FN<sub>3</sub>O<sub>4</sub>

**Formula Wt.** 337.35

**Melting Point** 178-182C

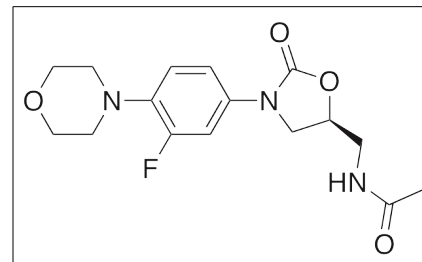
**Purity** ≥99%

**Solubility** Moderately soluble in water (3 mg/mL). Soluble in DMSO (>20 mg/mL).

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Linezolid is an oxazolidinone antibiotic that exhibits antibacterial activity against gram positive bacteria. Linezolid binds to the A site of 23S rRNA on the 50S ribosomal subunit, inhibiting protein synthesis. Linezolid also decreases NMDA receptor-mediated current, but is less active than most other comparable antibacterial compounds.



## Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
L3453	100 mg	\$55.70
L3453	1 g	\$147.80
L3453	5 g	\$380.50
L3453	25 g	\$869.30

**References** Long KS, Vester B. Resistance to linezolid caused by modifications at its binding site on the ribosome. Antimicrob Agents Chemother. 2012 Feb;56(2):603-12. PMID: 22143525.

Kombian SB, Phillips OA. In vitro electrophysiological investigations of the acute effects of linezolid and novel oxazolidinones on central nervous system neurons. Neuroscience. 2011 Apr 28;180:53-63. PMID: 21296129.

Ippolito JA, Kanyo ZF, Wang D, et al. Crystal structure of the oxazolidinone antibiotic linezolid bound to the 50S ribosomal subunit. J Med Chem. 2008 Jun 26;51(12):3353-6. PMID: 18494460.

Brickner SJ, Hutchinson DK, Barbachyn MR, et al. Synthesis and antibacterial activity of U-100592 and U-100766, two oxazolidinone antibacterial agents for the potential treatment of multidrug-resistant gram-positive bacterial infections. J Med Chem. 1996 Feb 2;39(3):673-9. PMID: 8576909 DOI: 10.1021/jm9509556

Goetz J, Keyssner V, Hanses F, et al. Animal experimental investigation on the efficacy of antibiotic therapy with linezolid, vancomycin, cotrimoxazole, and rifampin in treatment of periprosthetic knee joint infections by MSRA. Bone Joint Res. 2022 Mar;11(3):143-151. PMID: 35227086.

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