

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



DATASHEET

Linezolid

Product overview

Name	Linezolid
Cat No	HB4443
Alternative names	PNU 100766, U 100766
Biological action	Inhibitor
Purity	>98%
Description	Inhibits protein synthesis in gram-positive bacteria. Antibiotic.

Biological Data

Biological description Antibiotic which inhibits protein synthesis in gram-positive bacteria. Shows antibacterial activity against various multidrug-resistant gram-positive microbes.

Identified as targeting human host cell proteins that interact with SARS-CoV-2 so investigated as part of COVID-19 compound repurposing.

Solubility & Handling

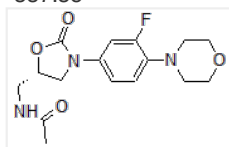
Storage instructions	Room temperature
Solubility overview	Soluble in DMSO (100mM) and ethanol (25mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name N-[[[(5S)-3-[3-Fluoro-4-(4-morpholinyl)phenyl]-2-oxo-5-oxazolidinyl]methyl]-acetamide

Molecular Weight 337.35

Chemical structure



Molecular Formula C₁₆H₂₀FN₃O₄

CAS Number 165800-03-3

PubChem identifier 441401

SMILES FC1=CC(N3C[C@H](CNC(C)=O)OC3=O)=CC=C1N2CCOCC2

InChi TYZROVQLWOKYKF-ZDUSSCGKSA-N

InChiKey TYZROVQLWOKYKF-ZDUSSCGKSA-N

MDL number MFCD00937825

References

Linezolid (ZYVOX), the first member of a completely new class of antibacterial agents for treatment of serious gram-positive infections

Manninen (2008) J Med Chem 51(7)

PubMedID

18338841

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

Zurenko et al (1996) J Med Chem 39(3)

PubMedID

8576909

A SARS-CoV-2 protein interaction map reveals targets for drug repurposing

Krogan et al (2020) Nature 7816

PubMedID

32353859
