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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.

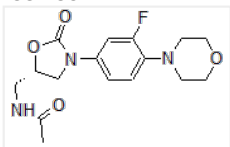
Biological Data

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	C ₁₆ H ₂₀ FN ₃ O ₄
CAS Number	165800-03-3
PubChem identifier	441401
SMILES	CC(=O)N[C@@H]1CC[C@H](N1C2=CC=C(C=C2)C3=CC(=CC=C3)F)C4=CC(=CC=C4)N5CCOCC5
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
