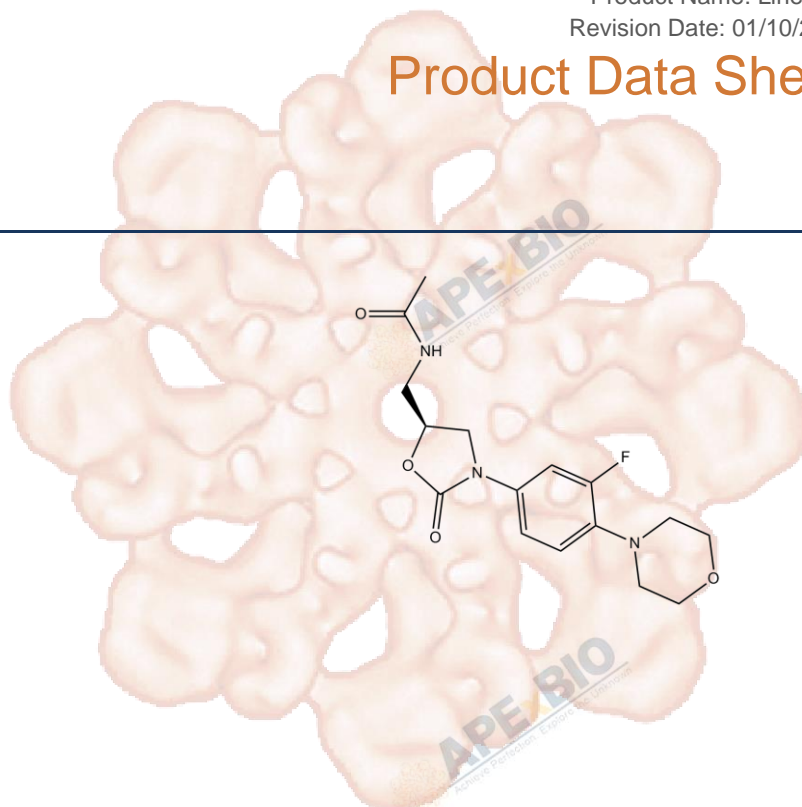


Product Data Sheet

Linezolid

Cat. No.:	A5181
CAS No.:	165800-03-3
Formula:	C ₁₆ H ₂₀ FN ₃ O ₄
M.Wt:	337.35
Synonyms:	
Target:	Microbiology & Virology
Pathway:	Antibiotic
Storage:	Store at -20°C



Solvent & Solubility

≥16.85 mg/mL in DMSO; ≥2.48 mg/mL in H₂O with gentle warming and ultrasonic; ≥9.5 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.9643 mL	14.8214 mL	29.6428 mL
	5 mM	0.5929 mL	2.9643 mL	5.9286 mL
	10 mM	0.2964 mL	1.4821 mL	2.9643 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Antibacterial reagent

 IC₅₀ & Target

Cell Viability Assay

In Vitro

Preparation method:

The solubility of this compound in DMSO is > 16.9 mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.

Reacting conditions:

0.01 ~ 1000 μM; 60 mins

	Applications:	Linezolid potentially inhibited protein synthesis in E. coli UC6782, with the IC90 value of 30 μ M. Linezolid was at least 2.5 times more potent than DuP-721 and about twice as potent as streptomycin.
In Vivo	Animal experiment	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Shinabarger D L, Marotti K R, Murray R W, et al. Mechanism of action of oxazolidinones: effects of linezolid and eperezolid on translation reactions[J]. Antimicrobial agents and chemotherapy, 1997, 41(10): 2132-2136.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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