

Tedizolid Phosphate PRODUCT DATA SHEET

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Product Name: Tedizolid Phosphate

Product Number: T118

CAS Number: 856867-55-5

Molecular Formula: $C_{17}H_{16}FN_6O_6P$

Molecular Weight: 450.32 g/mol

Form: Powder

Appearance: White to off-white powder

Solubility: Soluble in DMSO (36 mg/mL), sparingly soluble in water (0.1 mg/mL)

Source: Synthetic

Storage Conditions: -20C

Description: Tedizolid Phosphate is an oxazolidone antibiotic. It is a phosphate ester

prodrug of Tedizolid, the active compound. It is bacteriostatic against Gram-

positive organisms.

Mechanism of Action: Tedizolid binds to the 23S rRNA of the 50S ribosomal subunit, preventing the

formation of the 70S initiation complex and inhibiting protein synthesis.

Spectrum: Effective against Gram-positive bacteria including MRSA and VRE, and

linezolid-resistant strains

Microbiology Applications Tedizolid inhibited all 28 isolates of penicillin-resistant Streptococcus

pneumoniae using an in vitro mouse model with 0.25 µg/mL, which was 4-fold

more potent than Linezolid (Choi et al, 2012).

References: Choi S, Im W, and Bartizal K (2012) Activity of tedizolid phosphate (TR-701) in

murine models of infection with penicillin-resistant and penicillin-sensitive

Streptococcus pneumoniae. Antimicrob Agents Chemother. 2012

Sep;56(9):4713-7 PMID 22713339 Kisgen JJ, Mansour H, Unger NR, Childs LM (2014) Tedizolid: a new oxazolidinone antimicrobial. Am. J. Health Syst. Pharm. 71(8):621-33 PMID 24688035 Rybak JM, Marx K, Martin CA (2014) Early experience with tedizolid: Clinical efficacy, pharmacodynamics, and

resistance. Pharmacother. 34(11):1198-208 PMID 25266820

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