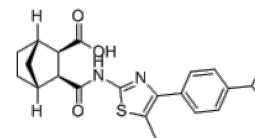


Product Name : PKZ18
Cat. No. : PC-38553
CAS No. : 849658-87-3
Molecular Formula : C₂₂H₂₆N₂O₃S
Molecular Weight : 398.521
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

PKZ18 is a small-molecule antibiotic inhibiting the in vivo transcription of glycyl-tRNA synthetase mRNA in gram-positive bacteria, also inhibits in vivo translation of the *S. aureus* threonyl-tRNA synthetase protein.

PKZ18 has MIC value of 32 to 64 µg/ml against most Gram-positive bacteria.

PKZ18 bound to the GlyQS specifier Loop in vitro with K_d of 24 µM.

PKZ18 targets the site of the codon-anticodon interaction of the conserved stem I and reduces T-box-controlled gene expression.

References

Frohlich KM, et al. ChemMedChem. 2019 Apr 3;14(7):758-769.

Väre VYP, et al. Antimicrob Agents Chemother. 2020 Dec 16;65(1):e01247-20.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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