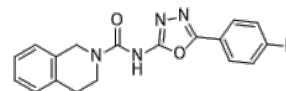


Product Name : MBX-4132
Cat. No. : PC-24388
CAS No. : 2286411-30-9
Molecular Formula : C₁₈H₁₅FN₄O₂
Molecular Weight : 338.34
Target : Bacterial
Solubility : 10 mM in DMSO



CAS: 2286411-30-9

Biological Activity

MBX-4132 is a trans-translation inhibitor with IC₅₀ of 0.6 uM and 0.4 uM in E. coli luciferase reporter assay and in vitro reconstituted assays respectively, exhibits potent broad-spectrum antibiotic activity against Gram-positive species and many Gram-negative species.

MBX-4132 is highly effective against all tested clinical isolates of N. gonorrhoeae, including MDR strains (N. gonorrhoeae, MIC₉₀=0.34 ug/mL).

MBX-4132 is bactericidal against N. gonorrhoeae at concentrations ≥ 4X MIC.

MBX-4132 (10 mg/kg) clears infection by a multiple-antibiotic resistant N. gonorrhoeae strain in a murine infection model.

MBX-4132 binds to a unique site near the peptidyl-transfer center and significantly alter the conformation of ribosomal protein bL27.

References

Varshney A, et al. ACS Infect Dis. 2025 Apr 9. doi: 10.1021/acsinfecdis.4c00963.

Aron ZD, et al. Nat Commun. 2021 Mar 19;12(1):1799.

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

E-mail: tech@probechem.com