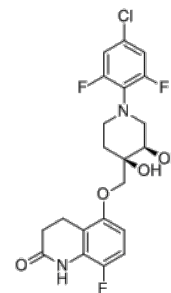


Product Name : Quabodepistat
Cat. No. : PC-73439
CAS No. : 1883747-71-4
Molecular Formula : C₂₁H₂₀ClF₃N₂O₄
Molecular Weight : 456.846
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

Quabodepistat (OPC-167832) is a highly potent **antituberculosis agent** with MIC of 0.00024 to 0.002 ug/mL against Mycobacterium tuberculosis, targets **DprE1** (IC₅₀=258 nM, recombinant DprE1), an essential enzyme for cell wall biosynthesis.

OPC-167832 showed MIC₉₀ of 0.0048 and 0.0027 ug/mL against intracellular M. tuberculosis strains H37Rv and Kurono were 0.0048 and 0.0027, respectively.

OPC-167832 showed potent bactericidal activities starting at a dose of 0.625 mg/kg of body weight in a mouse model of chronic TB.

OPC-167832 exhibited significant combination effects in 2-drug combinations with delamanid, bedaquiline, or levofloxacin.

References

Hariguchi N, et al. *Antimicrob Agents Chemother*. 2020 May 21;64(6):e02020-19.

Robertson GT, et al. *Antimicrob Agents Chemother*. 2021 Oct 18;65(11):e0058321.

Tasneen R, et al. *Antimicrob Agents Chemother*. 2022 Mar 22:e0239821.

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

E-mail: tech@probechem.com