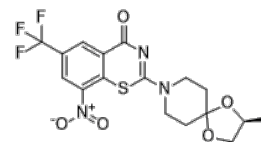


Product Name : BTZ043
Cat. No. : PC-22472
CAS No. : 1161233-85-7
Molecular Formula : C₁₇H₁₆F₃N₃O₅S
Molecular Weight : 431.39
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

BTZ043 is a small molecule antimycobacterial agent targeting the DprE1 (Rv3790) subunit of the enzyme decaprenylphosphoryl-beta-d-ribose 2'-epimerase, shows MIC values of 1 ng/ml (2.3 nM) and 4 ng/ml (9.2 nM) against M. tuberculosis H37Rv and Mycobacterium smegmatis, respectively.

BTZ043 abolishes the formation of decaprenylphosphoryl arabinose, a key precursor that is required for the synthesis of the cell-wall arabinans, thus provoking cell lysis and bacterial death.

References

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Makarov V, et al. Science. 2009 May 8;324(5928):801-4.

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

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