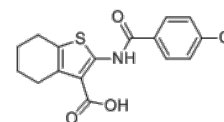


Product Name : MsbA inhibitor TBT1
Cat. No. : PC-63580
CAS No. : 52535-76-9
Molecular Formula : C₁₆H₁₄ClNO₃S
Molecular Weight : 335.802
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

MsbA inhibitor TBT1 is a novel small molecule lipopolysaccharide biogenesis inhibitor, inhibits **MsbA transporter**, an ATP-dependent flippase that translocates LPS across the inner membrane.

TBT1 causes mislocalization of LPS to the cell interior, inhibits Δ5 strain with MIC of 0.2 ug/ml.

TBT1 binds adjacent yet separate pockets in the MsbA transmembrane domains.

TBT1 is a LPS transport inhibitor and MsbA ATPase stimulator in strains from the Acinetobacter genus

References

Zhang G, et al. *Proc Natl Acad Sci U S A*. 2018 May 7. pii: 201804670.
2, Th  lot FA, et al. *Science*. 2021 Oct 29;374(6567):580-585.

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

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