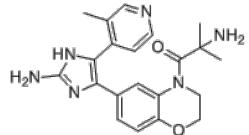


Product Name	:	SMT-738
Cat. No.	:	PC-21552
CAS No.	:	2862851-15-6
Molecular Formula	:	C ₂₁ H ₂₄ N ₆ O ₂
Molecular Weight	:	392.46
Target	:	Bacterial
Solubility	:	10 mM in DMSO



CAS: 2862851-15-6

Biological Activity

SMT-738 is a small-molecule inhibitor of bacterial lipoprotein transport complex (**LoICDE**), shows potent and highly selective antimicrobial activity.

SMT-738 shows potent in vitro activity across all the clinical isolates with MIC₉₀ values of 1 μ g/mL against *E. coli* and 2 μ g/mL against *K. pneumoniae*.

SMT-738 displays potent antimicrobial activity against clinically relevant strains of Enterobacteriaceae and exerts its bactericidal activity via a mechanism distinct from that of known classes of antibiotics.

SMT-738 acts by disruption of LoCDE complex activity.

SMT-738 demonstrates robust efficacy in multiple murine *in vivo* infection models (bloodstream/pneumonia/urinary tract).

References

Patent WO 2022/233886 A1

Breidenstein EBM, et al. *Antimicrob Agents Chemother*. 2023 Dec 12:e0069523.

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

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