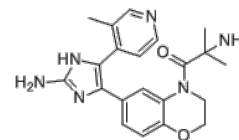


**Product Name** : SMT-738  
**Cat. No.** : PC-21552  
**CAS No.** : 2862851-15-6  
**Molecular Formula** : C<sub>21</sub>H<sub>24</sub>N<sub>6</sub>O<sub>2</sub>  
**Molecular Weight** : 392.46  
**Target** : Bacterial  
**Solubility** : 10 mM in DMSO



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 MIC<sub>90</sub> values of 1 µg/mL against E. coli and 2 µg/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 LoICDE 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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