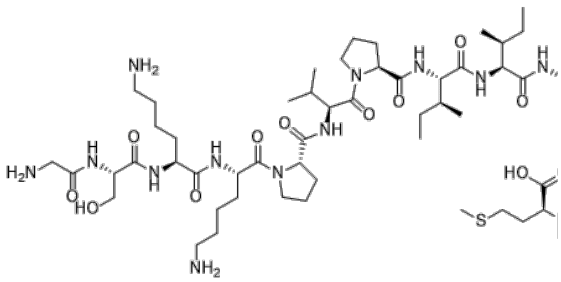
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Thanatin
Cat. No.	:	PC-28582
CAS No.	:	214542-43-5
Molecular Formula	:	$C_{103}H_{177}N_{35}O_{27}S_3$
Molecular Weight	:	2433.92
Target	:	Bacterial
Solubility	:	10 mM in DMSO



Biological Activity

Thanatin is a 21-residue inducible insect defense peptide within antimicrobial activity against fungi and some Gram-positive bacteria with MIC of 0.6-20 uM, disrupts bacterial outer membrane and inactivates the NDM-1 metallo-β-lactamase, inhibits LPS transport (Lpt) LptC-LptA interaction, disrupting the assembly of the Lpt protein machinery.

References

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Mandard N, et al. Eur J Biochem. 1998 Sep 1;256(2):404-10.

Javadmanesh A, et al. Sci Rep. 2021 May 25;11(1):10890.

Ma B, et al. Nat Commun. 2019 Aug 6;10(1):3517.

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

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