

Api137

Cat. No.:	HY-P5723
CAS No.:	1428789-03-0
Molecular Formula:	C ₁₀₄ H ₁₇₁ N ₃₇ O ₂₂
Molecular Weight:	2291.71
Sequence:	N,N,N',N'-Tetramethylguanidino-{Orn}-Asn-Asn-Arg-Pro-Val-Tyr-Ile-Pro-Arg-Pro-Arg-Pro-Pro-His-Pro-Arg-Leu
Sequence Shortening:	N,N,N',N'-Tetramethylguanidino-{Orn}-NNRPVYIPRPPHPRL
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Api137 is an antimicrobial peptide that interferes with bacterial growth by inhibiting translation. Api137 inhibits protein synthesis by trapping of release factors on the 70S ribosome following hydrolysis of the nascent polypeptide chain^{[1][2]}.

REFERENCES

- [1]. Florin T, et, al. An antimicrobial peptide that inhibits translation by trapping release factors on the ribosome. *Nat Struct Mol Biol.* 2017 Sep;24(9):752-757.
- [2]. Graf M, et, al. Intracellular Antimicrobial Peptides Targeting the Protein Synthesis Machinery. *Adv Exp Med Biol.* 2019:1117:73-89.

Caution: Product has not been fully validated for medical applications. For research use only.

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