

Api137 TFA

Cat. No.:	HY-P5723A	
Molecular Formula:	C ₁₀₄ H ₁₇₁ N ₃₇ O ₂₂ .xC ₂ HF ₃ O ₂	
Sequence:	N,N,N',N'-Tetramethylguanidino-{Orn}-Asn-Asn-Arg-Pro-Val-Tyr-Ile-Pro-Arg-Pro-Arg-Pro-Arg-Pro-His-Pro-Arg-Leu	N,N,N',N'-Tetramethylguanidino-{Orn}-Asn-Asn-Arg-Pro-Val-Tyr-Ile-Pro-Arg-Pro-Arg-Pro-Pro-His-Pro-Arg-Leu (TFA salt)
Sequence Shortening:	N,N,N',N'-Tetramethylguanidino-{Orn}-NNRPVYIPRPPHPRRL	
Target:	Bacterial	
Pathway:	Anti-infection	
Storage:	Sealed storage, away from moisture	
	Powder -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

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