

Tet-213 TFA

Cat. No.:	HY-P3459A	
Molecular Formula:	$C_{79}H_{108}F_3N_{25}O_{13}S$	
Molecular Weight:	1704.92	
Sequence Shortening:	KRWWKWRRRC	KRWWKWRRRC (TFA salt)
Target:	Bacterial	
Pathway:	Anti-infection	
Storage:	Sealed storage, away from moisture and light Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (58.65 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	0.5865 mL	2.9327 mL	5.8654 mL	
		5 mM	0.1173 mL	0.5865 mL	1.1731 mL	
		10 mM	0.0587 mL	0.2933 mL	0.5865 mL	
Please refer to the solubility information to select the appropriate solvent.						

BIOLOGICAL ACTIVITY

Description	Tet-213 TFA is an antimicrobial peptide. Tet-213 TFA has broad spectrum antibacterial activity. Tet-213 TFA can promote infected wound repair ^[1] .
In Vitro	Tet-213 TFA shows significant antibacterial activity on 80% (16 of 20 strains) of the <i>S. aureus</i> clinical isolates ^[2] . Tet-213 TFA strongly reduces the growth and biofilm formation of <i>S. aureus</i> ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Pwa B, et al. Antibacterial peptide-modified collagen nanosheet for infected wound repair - ScienceDirect[J]. Smart Materials in Medicine, 2021.
- [2]. Zhao G, et al. Effects of antimicrobial peptides on Staphylococcus aureus growth and biofilm formation in vitro following isolation from implant-associated infections. Int J Clin Exp Med. 2015 Jan 15;8(1):1546-51.

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

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