

## Parasin I TFA

<b>Cat. No.:</b>	HY-P0324A		
<b>Molecular Formula:</b>	$C_{82}H_{154}N_{34}O_{24}C_2HF_3O_2$		
<b>Molecular Weight:</b>	2114.33		
<b>Sequence:</b>	Lys-Gly-Arg-Gly-Lys-Gln-Gly-Gly-Lys-Val-Arg-Ala-Lys-Ala-Lys-Thr-Arg-Ser-Ser	KGRGKQGGKVRRAKATRSS (TFA salt)	
<b>Sequence Shortening:</b>	KGRGKQGGKVRRAKATRSS		
<b>Target:</b>	Bacterial		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	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

<b>In Vitro</b>	DMSO : 100 mg/mL (47.30 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		0.4730 mL	2.3648 mL	4.7296 mL
		<b>5 mM</b>		0.0946 mL	0.4730 mL	0.9459 mL
	<b>10 mM</b>		0.0473 mL	0.2365 mL	0.4730 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (1.18 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (1.18 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.18 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Parasin I (TFA) is a 19-amino acid histone H2A-derived peptide isolated from the skin of the catfish, and shows antimicrobial activity <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Bacterial <sup>[1]</sup>

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## REFERENCES

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[1]. Koo YS, et al. Structure-activity relations of parasin I, a histone H2A-derived antimicrobial peptide. Peptides. 2008 Jul;29(7):1102-8.

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

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