

PSM-β

Cat. No.:	HY-P4211	
Molecular Formula:	C ₂₀₈ H ₃₃₈ N ₅₂ O ₆₅ S	
Molecular Weight:	4639.28	Met-Ser-Lys-Leu-Ala-Glu-Ala-Ile-Ala-Asn-Thr-Val-Lys-Ala-Ala-Gln-Asp-Gln-Asp-Trp-Thr-Asp-Thr-Thr-Lys-Leu-Gly-Thr-Ser-Ile-Val-Asp-Ile-Val-Glu-Ser-Gly-Val-Ser-Val-Leu-Gly-Lys-Ile-Phe-Gly-Phe
Sequence:	Met-Ser-Lys-Leu-Ala-Glu-Ala-Ile-Ala-Asn-Thr-Val-Lys-Ala-Ala-Gln-Asp-Gln-Asp-Trp-Thr-Lys-Leu-Gly-Thr-Ser-Ile-Val-Asp-Ile-Val-Glu-Ser-Gly-Val-Ser-Val-Leu-Gly-Lys-Ile-Phe-Gly-Phe	
Sequence Shortening:	MSKLAEAIANTVKAQDQDWTGLGTSIVDIVESGVSVLGKIFGF	
Target:	Bacterial	
Pathway:	Anti-infection	
Storage:	Sealed storage, away from moisture and light, under nitrogen	
	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, under nitrogen)	

SOLVENT & SOLUBILITY

In Vitro

H₂O : 20 mg/mL (4.31 mM; ultrasonic and adjust pH to 3 with 0.5%CH₃COOH)
 DMSO : 1.96 mg/mL (0.42 mM; ultrasonic and adjust pH to 5 with HCl)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		0.2156 mL	1.0778 mL	2.1555 mL
	5 mM		---	---	---
	10 mM		---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PSM-β is a active peptide , which can be isolated from Staphylococcus epidermidis. PSM-β is an analog of staphylococcal toxins, as well as a termed phenol-soluble modulins. PSM-β has bacteriostatic and poorly hemolytic properties^{[1][2]}.

REFERENCES

- [1]. Mehlin C, et al. An inflammatory polypeptide complex from Staphylococcus epidermidis: isolation and characterization. J Exp Med. 1999 Mar 15;189(6):907-18.
- [2]. Marchand A, et al. Anti-Legionella activity of staphylococcal hemolytic peptides. Peptides. 2011 May;32(5):845-51.

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

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