

pBD-1 TFA

Cat. No.:	HY-P2289A
Molecular Formula:	C ₃₁₂ H ₅₄₄ F ₃ N ₉₁ O ₇₅ S ₁₁
Molecular Weight:	7180
Sequence:	{Met}{Arg}{Leu}{His}{Arg}{Leu}{Leu}{Leu}{Val}{Phe}{Leu}{Leu}{Met}{Val}{Leu}{Leu}{Pro}{Val}{Pro}{Gly}{Leu}{Leu}{Lys}{Asn}{Ile}{Gly}{Asn}{Ser}{Val}{Ser}{Cys}{Leu}{Arg}{Asn}{Lys}{Gly}{Val}{Cys}{Met}{Pro}{Gly}{Lys}{Cys}{Ala}{Pro}{Lys}{Met}{Lys}{Gln}{Ile}{Gly}{Thr}{Cys}{Gly}{Met}{Pro}{Gln}{Val}{Lys}{Cys}{Cys}{Lys}{Arg}{Lys}
Sequence Shortening:	MRLHRLLLVFLLMVLLPVPGLLKNIGNSVSCLRNKGVCMPGKCAPKMKQIGTCGMPQVKCKCRK
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

MRLHRLLLVFLLMVLLPVPGLLKNIGNSVSCLRNKGVCMPGKCAPKMKQIGTCGMPQVKCKCRK (TFA 448)

BIOLOGICAL ACTIVITY

Description	pBD-1 TFA is an endogenous and constitutively expressed antimicrobial peptide (AMP) from porcine tissues, particularly expresses in pig mucosal epithelial sites. pBD-1 TFA has antimicrobial activities and contributes to mucosal and systemic host defenses in pigs ^[1] .
IC₅₀ & Target	IC50: bacterial ^[1]
In Vitro	In a northern blot analysis, pBD-1 TFA mRNA only expresses in ongue epithelial tissues from 4-5 week old pigs ^[1] . In RT-PCR analysis, pBD-1 TFA message throughout the epithelia of the respiratory (from nasal septum to lung) and gastrointestinal (from esophagus to rectum) tracts. In addition, it is detected in thymus, spleen, lymph node, brain, liver, kidney, urinary bladder, testis, skin, heart, muscle, bone marrow, alveolar macrophages, peripheral blood neutrophils and the umbilical cord. The only cells evaluated that does not express pBD-1 TFA are peripheral blood mononuclear cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang G, et al. Molecular cloning and tissue expression of porcine beta-defensin-1. FEBS Lett. 1998 Mar 6;424(1-2):37-40.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA