

β-defesin 1 (pig)

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| Cat. No.: | HY-P2289 |
| Molecular Formula: | C ₁₈₀ H ₃₁₃ N ₅₉ O ₅₀ S ₉ |
| Molecular Weight: | 4392.36 |
| Sequence: | 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 (disulfide bridge:Cys1-Cys5,Cys2-Cys4,Cys3-Cys6) |
| Sequence Shortening: | NIGNSVSLRNKGVCMPGKCAPKMKQIGTCGMPQVKCKRK (disulfide bridge:Cys1-Cys5,Cys2-Cys4,Cys3-Cys6) |
| Target: | Bacterial |
| Pathway: | Anti-infection |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

BIOLOGICAL ACTIVITY

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| Description | β-defesin 1 (pig) (pBD-1) is an endogenous and constitutively expressed antimicrobial peptide (AMP) from porcine tissues, particularly expresses in pig mucosal epithelial sites. β-defesin 1 (pig) has antimicrobial activities and contributes to mucosal and systemic host defenses in pigs ^[1] . |
| IC ₅₀ & Target | IC50: bacterial ^[1] |
| In Vitro | In a northern blot analysis, β-defesin 1 (pig) mRNA only expresses in tongue epithelial tissues from 4-5 week old pigs ^[1] . In RT-PCR analysis, β-defesin 1 (pig) 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 β-defesin 1 (pig) 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.

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