

BD-3

Catalog # PVGS1133

Product Information

Primary Accession Species	Q9WTL0 Mouse
Sequence	Lys23-Lys63
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by anti-microbial activity against E.coli is less than 20.0 µg/ml, corresponding to a specific activity of > 50.0 IU/mg.
Expression System	E. coli
Theoretical Molecular Weight	4.6 kDa
Formulation Reconstitution	Lyophilized from a 0.2 µm filtered solution in 2 × PBS, pH 7.4. It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID	27358
Other Names	Beta-defensin 3, BD-3, mBD-3, Defensin, beta 3, Defb3, Bd3
Target Background	Beta defensin-3, also known as BD-3 and DEFB-3, is a membrane active cationic peptide that functions in inflammation and innate immune responses and coded by Defb 3 gene on chromosome 8 in mouse. There are at least 30 β-defensins which are distinguished from α-defensins by the connectivity pattern of their three intramolecular disulfide bonds. BD3 is widely expressed among epithelial tissues, notably by keratinocytes and airway epithelial cells. It is upregulated in response to proinflammatory cytokines, microbial and viral infections, and at the edges of skin wounds. BD3 induction in osteoarthritis chondrocytes promotes MMP1 and 13 productions and inhibits TIMP1 and 2 expressions.

Protein Information

Name	Defb3
Synonyms	Bd3
Function	Antimicrobial activity against Gram-negative bacteria E.coli and P.aeruginosa.
Cellular Location	Secreted.
Tissue Location	Highest expression in salivary glands, epididymis, ovary and pancreas and to a lesser extent in lung, liver and brain. Low or no expression in skeletal muscle and tongue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.