

Active Recombinant Mouse Defb3 Protein (41 aa)

Cat. No. Defb3-037D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Defb3 Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	41
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Exhibits antimicrobial activity against gram-positive bacteria S. aureus and gram-negative P. aeruginosa and E. coli.
Molecular Mass	Approximately 4.6 kDa, a single non-glycosylated polypeptide chain containing 41 amino acid residues.

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AA Sequence	KKINNPVSLRKGGRCWNRCIGNTRQIGSCGVPFLKCKRK
Endotoxin	Less than 1 EU/μg of rMuBD-3 as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions should be made in appropriate buffered solutions

GENE INFORMATION

Gene Name	Defb3 defensin beta 3 [Mus musculus (house mouse)]
Official Symbol	Defb3
Synonyms	Defb3; defensin beta 3; BD-3; beta-defensin 3
Gene ID	27358
mRNA Refseq	NM_013756

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Protein Refseq	NP_038784
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UniProt ID	Q9WTL0
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