



Recombinant Human BD-5

20180427BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-038S
Size:	5 µg
Lot. No.:	According to product label

Sequence

GLDFSQPFPS GEFVAVCESCK LGRGKCRKEC LENEKPDGNC
RLNFLCCRQR I

Database References

Protein RefSeq:	NP_689463.1
Uniprot ID:	Q8NG35
mRNA RefSeq:	NM_152250.2

Scientific Background

Gene-ID (NCBI):	245908
Synonyms:	BD5, DEFB5, DEFB105a, Beta-Defensin 5

Defensins (alpha and beta) are cationic peptides with a broad spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The alpha-defensins are distinguished from the beta-defensins by the pairing of their three disulfide bonds. To date, six human beta-defensins have been identified; BD-1, BD-2, BD-3, BD-4, BD-5 and BD-6. beta-defensins are expressed on some leukocytes and at epithelial surfaces. In addition to their direct antimicrobial activities, they can act as chemoattractants towards immature dendritic cells and memory T cells. The beta-defensin proteins are expressed as the C-terminal portion of precursors, and are released by proteolytic cleavage of a signal sequence and, in some cases, a propeptide sequence. beta-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds. Recombinant Human BD-5 is a 5.8 kDa protein containing 51 amino acid residues.

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	51
MW:	5.8 kDa



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Not available.