

BD4 active protein

BD4 protein

CATALOG # AAA75586	HOST Human
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PRODUCT SYNONYMS

BD4; BD4 protein; BEFB4 protein; BD 4 protein; beta-defensin 104 protein; BD-4; BD-4 protein; BD 4; BD4 active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	> 98% pure
Sequence	Region of BD 4 protein in response to amino acids EFELDRI CGYGTARCRK KCRSQEYRIG RCPNTYACCL RKWDESLNLR TKP.
Sequence Length	72
Protein Type	Recombinant
Biological Significance	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, four human beta-defensins have been identified; BD-1, BD-2, BD-3 and BD-4. The beta-defensin proteins are expressed as the C-terminal portion of precursors and are released by proteolytic cleavage of a signal sequence. beta-defensins contain a six-cysteine motif that forms three intramolecular disulfide bonds. beta-defensins are 3-5 kDa peptides ranging in size from 33-47 amino acid residues. BD-4 is expressed in testis, stomach, uterus, neutrophils, thyroid, lung and kidney.
Bioactivity	Determined by its ability to chemoattract human monocytes using a concentration range of 0.1-100.0 ng/ml.
Endotoxin	Endotoxin level is <0.1 ng/ug of protein (1 EU/ug).
Expression System	E Coli
Form	Sterile filtered through a 0.2 micron filter. Lyophilized from 10mM Acetic Acid. Initially reconstitute in 10mM Acetic Acid to 0.1-1.0mg/mL. After initial reconstitution, further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA)
Preparation and Storage	Store at 4 degree C until reconstitution. Following reconstitution aliquot and freeze at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for BD4 active protein	Purified recombinant Human BD4 protein
Product Categories/Family for BD4 active protein	Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	103485139
NCBI GeneID	140596
NCBI Accession #	NP_525128.2

NCBI GenBank Nucleotide #	NM_080389.2
UniProt Accession #	Q8WTQ1 ; Q496I2 ; Q496I3 ; Q496I4
Molecular Weight	6.0 kDa
NCBI Official Full Name	beta-defensin 104
NCBI Official Synonym Full Names	defensin, beta 104A
NCBI Official Symbol	DEFB104A
NCBI Official Synonym Symbols	BD-4; DEFB4; hBD-4; DEFB-4; DEFB104
NCBI Protein Information	beta-defensin 104
UniProt Protein Name	Beta-defensin 104
UniProt Gene Name	DEFB104A
UniProt Synonym Gene Names	DEFB104; DEFB4; BD-4; DEFB-4; hBD-4
UniProt Entry Name	D104A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-active-protein/bd4/75586>