

Beta Defensin -4 Active Protein | BD 4 active protein

Recombinant Human Beta Defensin -4

CATALOG #
AAA38588

HOST
E Coli

PRODUCT SYNONYMS

Beta Defensin -4; Recombinant Human Beta Defensin -4; BD 4 Human; Beta Defensin-4 Human Recombinant; HBD-4; DEFB-4; HBD4; DEFB104B; Beta-defensin 4; BD-4; BD 4 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The DEFB4 (1mg/ml) was lyophilized with 20mM sodium Phosphate buffer pH-7.4 and 130mM NaCl. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	EFELDRICGY GTARCRKKCR SQEYRIGRCP NTYACCLRKW DESLLNRTKP
Sequence Length	72
Solubility	It is recommended to reconstitute the lyophilized Beta Defensin-4 in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Determined by its ability to chemoattract human monocytes using a concentration range of 0.1-50 ng/ml, corresponding to a specific activity of 20,000-10,000,000 units/mg.
Preparation and Storage	Lyophilized Beta Defensin-4 Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution BD-3 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for BD 4 active protein	Description: Beta Defensin-4 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 50 amino acids and having a molecular mass of 6 kDa. The BD-4 is purified by proprietary chromatographic techniques. Introduction: Defensins are cationic peptides with a large spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The Alpha defensins are differentiated from the Beta-defensins by the pairing of their 3 disulfide bonds. 4 human Beta-defensins have been identified to date; BD-1, BD-2, BD-3 and BD-4. Beta-defensins are expressed on some leukocytes and at epithelial surfaces. In addition to their direct antimicrobial activities, they are chemoattractant 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 the case of BD-1 (36 a.a.), a propeptide region. Beta-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds. Beta-Defensins are 3-5 kDa peptides ranging in size from 33-47 amino acid residues.
Product Categories/Family for BD 4 active protein	Cytokines and Growth Factors; Cytokines; Beta Defensin

NCBI AND UNIPROT INFORMATION

NCBI GI #	103485137
NCBI GeneID	503618

NCBI Accession #	NP_001035792.1
NCBI GenBank Nucleotide #	NM_001040702.1
UniProt Accession #	Q8WTQ1 ; Q496I2 ; Q496I3 ; Q496I4
Molecular Weight	8,526 Da
NCBI Official Full Name	beta-defensin 104
NCBI Official Synonym Full Names	defensin, beta 104B
NCBI Official Symbol	DEFB104B
NCBI Official Synonym Symbols	BD-4; hBD-4; DEFB-4
NCBI Protein Information	beta-defensin 104; beta-defensin 4; defensin, beta 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/e-coli-bd-4-active-protein/beta-defensin-4/38588>