

Beta Defensin -1 Active Protein | BD 1 active protein

Recombinant Human Beta Defensin -1

CATALOG #
AAA38586

HOST
E Coli

PRODUCT SYNONYMS

Beta Defensin -1; Recombinant Human Beta Defensin -1; BD 1 Human; Beta Defensin-1 Human Recombinant; Beta-defensin 1; BD-1; Defensin beta 1; hBD-1; HBD1; HBP1; DEFB1; HBD-1; HBP-1; DEFB101; DEFB-1; MGC51822; BD 1 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 Human BD-1 was lyophilized from a concentrated (1mg/ml) solution containing 20mM PBS pH-7.4 and 130mM sodium chloride. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	GNFLTGLGHR SDHYNCVSSG GQCLYSACPI FTKIQGTCYR GKAKCCK
Sequence Length	68
Solubility	It is recommended to reconstitute the lyophilized Beta Defensin-1 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 CD34+ dendritic cells using a concentration range of 100-1000ng/ml corresponding to a specific activity of 1,000-10,000IU/mg.
Preparation and Storage	Lyophilized Beta Defensin-1 Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution BD-1 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 1 active protein	Description: Beta Defensin-1 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 47 amino acids and having a molecular mass of 5 kDa. The BD-1 is purified by proprietary chromatographic techniques. Introduction: The Defensin family are highly similar in their protein sequence and are microbicidal & cytotoxic peptides made by neutrophils. Beta Defensin-1 is an antimicrobial peptide having the resistance of epithelial surfaces to microbial colonization. Beta Defensin-1 has close proximity to Defensin Alpha-1 and has been implicated in the pathogenesis of cystic fibrosis. Skin of patients having atopic dermatitis patients and mycosis fungoides (non-lesional and lesional) show lower human Beta Defensin-1 mRNA expression and higher human Beta Defensin-2 and human Beta Defensin-3 mRNA expression. Beta Defensin is highly expressed by epithelial cells. Beta-defensin 1 may play a role in the pathogenesis of severe sepsis. Variation in human Beta Defensin-1 contributes to asthma identification, with apparent gender-specific effects. Human Beta Defensin-3 is a dimer, while Human BD-1 and Human BD-2 are monomeric. The expression of Human BD1 is correlated with induction profiles in gingival keratinocytes. The level of expression of human DEFB1 mRNA is lower than that of human BD3 and human BD-2 in reconstructed epidermis. Human BD1 is down-regulated in human prostatic and renal carcinomas.
Product Categories/Family for BD 1 active protein	Cytokines and Growth Factors; Cytokines; Beta Defensin

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885181
NCBI GeneID	1672
NCBI Accession #	NP_005209.1
NCBI GenBank Nucleotide #	NM_005218.3
UniProt Accession #	P60022; Q09753
Molecular Weight	7,420 Da
NCBI Official Full Name	beta-defensin 1 preproprotein
NCBI Official Synonym Full Names	defensin, beta 1
NCBI Official Symbol	DEFB1
NCBI Official Synonym Symbols	BD1; HBD1; DEFB-1; DEFB101
NCBI Protein Information	beta-defensin 1; BD-1; beta defensin 1; beta-defensin-1
UniProt Protein Name	Beta-defensin 1
UniProt Gene Name	DEFB1
UniProt Synonym Gene Names	BD1; HBD1; BD-1; hBD-1
UniProt Entry Name	DEFB1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/e-coli-bd-1-active-protein/beta-defensin-1/38586>