

BD2 active protein

BD2 protein

CATALOG # AAA75442	HOST Human
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PRODUCT SYNONYMS

BD2; BD2 protein; BD-2; BD 2 protein; BD-2 protein; SAP1 protein; Skin-antimicrobial peptide 1 protein; BD 2; BD2 active protein

PRODUCT SPECIFICATIONS

Host	Human
Purity/Purification	> 98% pure
Concentration	20ug , lyophilized (varies by lot)
Sequence	RegionofBD 2proteinco rrespondin gtoaminoac idsGIGDPVT CLKSGAICHP VFCPRRYKQI GTCGLPGTKC CKKP.
Sequence Length	64
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 a-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. 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.
Bioactivity	Determined by its ability to chemoattract immature human dendritic cells using a concentration of 10.0-100.0 ng/ml.
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Expression System	E Coli
Form	Sterile filtered through a 0.2 micron filter. Lyophilized with not additives. 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 stabalizer (e.g. 0.1%BSA).
Preparation and Storage	Upon receipt , store at 4°C short term, -20°C long term. Avoid repeat freeze-thaws.

ADDITIONAL INFORMATION

Related Product Information for BD2 active protein	Purified recombinant Human BD2 protein
Product Categories/Family for BD2 active protein	Immunology

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826692
NCBI GeneID	1673
NCBI Accession #	NP_004933.1
NCBI GenBank Nucleotide #	NM_004942.2

UniProt Accession #	O15263; Q52LC0
Molecular Weight	4.3 kDa
NCBI Official Full Name	beta-defensin 4A
NCBI Official Synonym Full Names	defensin, beta 4A
NCBI Official Symbol	DEFB4A
NCBI Official Synonym Symbols	BD-2; SAP1; DEFB2; DEFB4; HBD-2; DEFB-2; DEFB102
NCBI Protein Information	beta-defensin 4A
UniProt Protein Name	Beta-defensin 4A
UniProt Gene Name	DEFB4A
UniProt Synonym Gene Names	DEFB102; DEFB2; DEFB4; BD-2; hBD-2; SAP1
UniProt Entry Name	DFB4A_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/bd2/75442>