

Active Recombinant Human Defensin, Beta 1

Cat. No. DEFB1-035H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DEFB1 protein was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	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.
Form	Supplied as a lyophilized powder.
Purity	>98% pure by SDS PAGE and HPLC
Sequence	Region of BD1 protein corresponding to amino acids DHYNCVSSGG QCLYSACPIF TKIQGTCYRG KAKCCK.
Molecular Mass	3.9 kDa
Applications	Numerous applications are possible with this product and should be tested by the end

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	user under their own laboratory conditions
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Bioactivity	Determined by its ability to chemoattract CD34+ dendritic cells using a concentration range of 100.0-1000.0 ng/ml.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

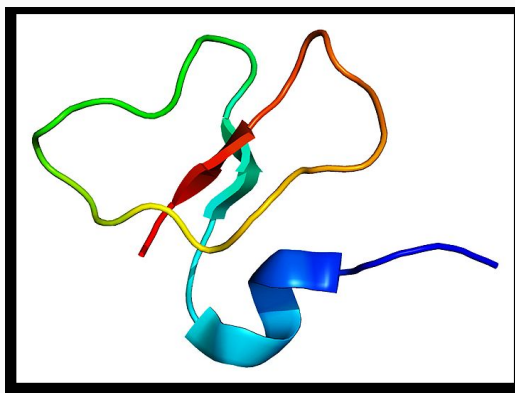
Gene Name	DEFB1 defensin, beta 1 [Homo sapiens]
Official Symbol	DEFB1
Synonyms	DEFB1; BD1; DEFB101; HBD1; hBD-1; beta-defensin-1; defensin beta 1; MGC51822; Beta-defensin 1 precursor; BD-1; DEFB1
Gene ID	1672
mRNA Refseq	NM_005218
Protein Refseq	NP_005209
MIM	602056
UniProt ID	P60022
Chromosome Location	8p23.1

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PDBrendering based
on 1e4s.



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