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AR31146PU-N Human Defensin beta 5 - Purified

Alternate names: BD5, Beta-defensin 105, Beta-defensin 5, DEFB-5, DEFB105, DEFB105A, DEFB105B, DEFB5

Quantity: 20 µg

Background: Defensins (α and β) are cationic peptides with a broad spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The α-defensins are distinguished from the β-defensins by the pairing of their three disulfide bonds. To date, six human β-defensins have been identified; BD-1, BD-2, BD-3, BD-4, BD-5 and BD-6. β-defensins are expressed on some leukocytes and at epithelial surfaces. In addition to their direct antimicrobial activities, they can act as chemoattractants towards immature dendritic cells and memory T cells. The β-defensin proteins are expressed as the C-terminal portion of precursors and are released by proteolytic cleavage of a signal sequence and in some cases, a propeptide sequence. β-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds.

Uniprot ID: Q8NG35

NCBI: NP_001035793.1

GeneID: 245908

Species: Human

Source: E. coli

Format:
State: Lyophilized (sterile filtered) protein
Purity: ›98% by SDS-PAGE gel and HPLC analyses
Buffer System: None
Preservatives: None
Stabilizers: None
Endotoxin Level: ‹ 0.1 ng per µg (1EU/µg)
Reconstitution: Restore in Water to a concentration of 0.1-1.0 mg/ml.
Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Description: Recombinant Human BD-5 is a 5.8 kDa protein containing 51 amino acid residues.
AA Sequence:
GLDFSQPFPS GEFAVCESCK LGRGKCRKEC LENEKPDGNC RLNFLCCRQR I
Molecular weight: 5.8 kDa (51 amino acids)

Add. Information: Centrifuge vial before opening.

Storage: Store lyophilized at 2-8°C for 6 months or at -20°C long term.
After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.