

DEFB104A

Recombinant Human beta Defensin 4

Catalog No. CRB135A Quantity: 5 μg

CRB135B 20 μg CRB135C 1.0 mg

Alternate Names: defensin beta 104A; BD4; BD-4; DEFB4; hBD-4; DEFB-4; DEFB104

Description: Recombinant Human Defensin beta 4 is a single, non-glycosylated polypeptide chain

containing 50 amino acids Defensins (alpha and beta) are cationic peptides with antimicrobial activity against Gram-negative and Gram-positive bacteria, fungi, and enveloped viruses. They are 2-6 kDa proteins with important roles in innate immune system. Based on their size and pattern of disulfide bonding, mammalian defensins are classified into alpha, beta and theta categories. β -defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds. Four human β -defensins have been identified and they are expressed on some leukocytes and at epithelial surfaces. Because β -defensins are cationic peptides, they can interact with the membranes of invading microbes, which are negative due to lipopolysaccharides (LPS) and lipoteichoic

acid (LTA) in the membranes.

Gene ID: 140596
UniProtKB: Q8WTQ1
Source: E. coli
Molecular Weight: ~6.0 kDa

Formulation: Lyophilized from a sterile filtered solution in 20 mM PB, pH 7.4, 130 mM NaCl.

Purity: > 98% by HPLC and SDS-PAGE

Endotoxin Level: <1EU/µg

Biological Activity: Fully biologically active when compared to standard. The biological activity determined

by a chemotaxis bioassay using human monocytes is in a concentration range of 0.1

-100.0 ng/mL.

Amino Acid Sequence: EFELDRICGY GTARCRKKCR SQEYRIGRCP NTYACCLRKW DESLLNRTKP

Reconstitution: Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a

concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate

buffered solutions.

Storage & Stability: Upon receipt, store desiccated at -20 °C to -80 °C for up to 1 year. Upon reconstitution

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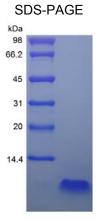
store at 2-8 °C for up to one month. For long term storage reconstitute in working aliquots containing 0.1% BSA and store at -20 °C to -80 °C. **Avoid repeated freeze-**

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