

Recombinant Human Beta-defensin 5 (rHuBD-5)

PrimeGene Technical Data Sheet

Catalog Number: 109-05

Source: Escherichia coli.

Molecular Weight: Approximately 5.8 kDa, a single non-glycosylated polypeptide chain containing 51 amino acids.

Quantity: $5\mu g/20\mu g/1000\mu g$

AA Sequence: GLDFSQPFPS GEFAVCESCK LGRGKCRKEC LENEKPDGNC RLNFLCCRQR I

Purity: > 95 % by SDS-PAGE and HPLC analyses.

Biological Activity: Testing in progress.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Endotoxin: Less than 1.0 EU/µg of rHuBD-5 as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the

bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1~% BSA to a concentration of 0.1-1.0~mg/ml. Stock solutions should be apportioned into working aliquots and

stored at \leq -20 °C. Further dilutions should be made in appropriate buffered solutions.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

12 months from date of receipt, -20 to -70 °C as supplied.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

• 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Usage: This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further

evaluation purposes. NOT FOR HUMAN USE.

Human Beta-defensin 5

Defensins (alpha & beta) are cationic peptides with a broad spectrum of antimicrobial activity that comprise an important arm of the innate immune system. The alpha-defensins are distinguished from the beta-defensins by the pairing of their three disulfide bonds. Six human beta-defensins have been identified, BD-1, BD-2, BD-3, BD-4, BD-5 and BD-6. Beta-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. Beta-defensins contain a six-cysteine motif that forms three intra-molecular disulfide bonds. Recombinant human BD-5 is a 5.8 kDa protein containing 51 amino acid residues.

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