
Product Data Sheet

Product Name: BD5 Human
 Cat. No.: GP20083
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Beta-defensin 105; eta-defensin 5; BD-5; DEFB-5; Defensin; beta 105; DEFB105A; BD5; DEFB105; DEFB5; DEFB105B.		
Amino Acid Sequence	GLDFSQPFPS GFAVCECK LGRGKCRKEC LENEKPDGNC RLNFLCCRQR I.		
Solubility	It is recommended to reconstitute the lyophilized Beta Defensin-5 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

Introduction

Defensins (alpha & beta) are cationic peptides with a wide spectrum of antimicrobial activity which include a significant arm of the innate immune system. There are 6 human beta-defensins, BD-1, BD-2, BD-3, BD-4, BD-5 and BD-6 which are expressed on some leukocytes and at epithelial surfaces. In addition to their direct antimicrobial activities, beta-defensins can act as chemoattractants towards immature dendritic cells and memory T cells. Beta-defensins contain a 6-cysteine motif which forms 3 intra-molecular disulfide bonds.

Stability

Lyophilized Beta Defensin-5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BD5 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

BD5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 51 amino acids and having a molecular mass of 5.8 kDa. The Beta Defensin-5 is purified by proprietary chromatographic techniques.

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