

## 32-1071: BD5 Recombinant Protein

**Alternative Name :** Beta-defensin 105,eta-defensin 5,BD-5,DEFB-5,Defensin,beta 105,DEFB105A,BD5,DEFB105,DEFB5,DEFB105B.

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.  
**Content :** Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.  
**Storage condition :** 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.  
**Amino Acid :** GLDFSQPFPS GFAVCECK LGRGKCRKEC LENEKPDGNC RLNFLCCRQR I.

### Application Note

It is recommended to reconstitute the lyophilized Beta Defensin-5 in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

