

## 32-20025: Recombinant Human BD-1 (47 a.a.)(Discontinued)

**Alternative Name :** Beta-Defensin 1, DEFB1, HBD1

### Description

**Source: E.coli**

Defensins (alpha and 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. To date, 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. The Beta-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. Beta-defensins contain a six-cysteine motif that forms three intramolecular disulfide bonds. Recombinant Human BD-1 is a 5.0 kDa protein containing 47 amino acid residues.

### Product Info

**Amount :** 5 µg / 20 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

**Amino Acid :** GNFLTGLGHR SDHYNCVSSG GQCLYSACPI FTKIQGTCYR GKAKCCK

### Application Note

Determined by its ability to chemoattract CD34+ dendritic cells using a concentration range of 100.0-1000.0 ng/ml.