

**Recombinant Human BD-5**  
**Catalog # PBG10035****Specification**

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**Recombinant Human BD-5 - Product Information****Recombinant Human BD-5 - Additional Information****Description**

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 intra-molecular disulfide bonds. Recombinant human BD-5 is a 57.8 kDa protein containing 51 amino acid residues.

**Biological Activity**

Testing in progress.

**Storage**

-20°C

**Precautions**

Recombinant Human BD-5 is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Human BD-5 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Recombinant Human BD-5 - Images**