

**Human BD-5** 

Catalog # PBG10569

# **Specification**

#### **Human BD-5 - Product Information**

#### **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.

# **BiologicalActivity**

Testing in progress.

#### **Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

#### **Endotoxin**

Endotoxin level is  $<0.1 \text{ ng}/\mu\text{g}$  of protein ( $<1\text{EU}/\mu\text{g}$ ).

## **Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

## Storage

-20°C

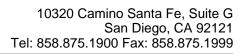
## **Precautions**

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

## **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 Cytomety
• Cell Culture
Human BD-5 - Images