

#### **Recombinant Human BD-4**

Catalog # PBG10034

## **Specification**

#### Recombinant Human BD-4 - Product Information

## **Recombinant Human BD-4 - 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. BD-4 is expressed in testis, stomach, uterus, neutrophils, thyroid, lung and kidney. In addition to its direct antimicrobial activities, BD-4 is chemoattractant towards human blood monocytes. Recombinant human BD-4 is a 6.0 kDa protein containing 50 amino acid residues.

# **Biological**Activity

Determined by its ability to chemoattract human monocytes using a concentration range of 0.1-100.0 ng/ml.

## **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

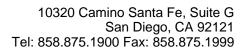
# **Precautions**

Recombinant Human BD-4 is for research use only and not for use in diagnostic or therapeutic procedures.

# Recombinant Human BD-4 - Protocols

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

- Western Blot
- Blocking Peptides



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• Dot Blot

- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

**Recombinant Human BD-4 - Images**