

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 α -defensins are distinguished from the β -defensins by the pairing of their three disulfide bonds. To date, six human β -defensins have been identified; BD-1, BD-2, BD-3, BD-4, BD-5 and BD-6. β -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 β -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. β -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 ng/ μ g of protein (<1EU/ μ 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](#)

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

Recombinant Human BD-4 - Images