

Recombinant Human BD-2

Catalog # PBG10032

Specification

Recombinant Human BD-2 - Product Information

Recombinant Human BD-2 - 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. Recombinant human BD-2 is a 4.3 kDa protein containing 41 amino acid residues.

BiologicalActivity

Determined by its ability to chemoattract immature human dendritic cells using a concentration of 10.0-100.0 ng/ml.

Authenticity

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

Endotoxin

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

Protein Content

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

Storage

-20°C

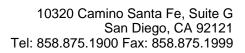
Precautions

Recombinant Human BD-2 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human BD-2 - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry





• <u>Immunofluorescence</u>

- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Human BD-2 - Images