

TECHNICAL DATA SHEET

Recombinant Human BD-1 (36 a.a.) (Carrier-Free)

Catalog Number: 21-9160

RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

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Recombinant Human BD-1 (36 a.a.) (Carrier-Free)

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.

MOLECULAR MASS

Recombinant Human BD-1 is a 3.9 kDa protein containing 36 amino acid residues.

AMINO ACID SEQUENCE

DHYNCVSSGG QCLYSACPIF TKIQGTCYRG KAKCCK

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

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

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

AUTHENTICITY

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

CROSS REACTIVITY

Bacteria, Human

BIOACTIVITY

Determined by its ability to chemoattract CD34+ dendritic cells using a concentration range of 100.0-1000.0 ng/ml.

RESEARCH AREAS

Immune System, Chemotaxis

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Bryan, J.D. Streptococcus agalactiae CspA is a serine protease that inactivates chemokines. 2009. Journal of Bacteriology; 191(6):1847-54. Hoover, D.M. The Structure of Humanb-Defensin-1: new insights into structural properties of beta-defensins. 2001. The Journal of Biological Chemistry; 276(42):39021-39026.

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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