

TECHNICAL DATA SHEET

Recombinant Human NP-1 (Carrier-Free)

Catalog Number: 21-9153

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

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Recombinant Human NP-1 (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, which include NP-1, NP-2 and NP-3, are distinguished from the beta-defensins by the pairing of their three disulfide bonds. In addition to antimicrobial activity, NP-1 exhibits chemotactic activity on dendritic cells.

MOLECULAR MASS

Recombinant Human NP-1 is a 3.4 kDa protein containing 30 amino acid residues.

AMINO ACID SEQUENCE

ACYCRIPACI AGERRYGTCTI YQGRLWAFCC

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

Human

BIOACTIVITY

Determined by its ability to chemoattract immature dendritic cells using a concentration of 1.0-10.0 ng/ml.

RESEARCH AREAS

Immune System, Chemotaxis

RECONSTITUTION

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

REFERENCES

Grigat, J. Chemoattraction of macrophages, T lymphocytes, and mast cells is evolutionarily conserved within the human alpha-defensin family. 2007. The Journal of Immunology; 179(6):3958-65. Mount, K.L. Haemophilus ducreyi is resistant to human antimicrobial peptides. 2007. Antimicrobial Agents and Chemotherapy; 51(9):3391-3.

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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