

TECHNICAL DATA SHEET

Recombinant Human CCL3 (MIP -1 α) (Carrier-free)

Catalog Number: 21-8003

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Human CCL3 (MIP -1 α) (Carrier-free)

DESCRIPTION

MIP-1 alpha, or CCL3, is a member of the CC chemokine family. MIP-1 alpha plays a role in the acute inflammatory response and is a chemoattractant for monocytes, neutrophils, eosinophils, NK cells, and CD8+ T lymphocytes.

MOLECULAR MASS

Recombinant Human MIP-1 α is a 7.8 kDa protein containing 69 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines.

AMINO ACID SEQUENCE

ASLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCCKPGV IFLTKRSRQV CADPSEEWVQ KYVSDLELSA

SOURCE

E. Coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

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

AUTHENTICITY

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

CROSS REACTIVITY

Bacteria, Cow, Frog, Hamster, Monkey, Mouse, Rat

BIOACTIVITY

Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 ng/ml.

RESEARCH AREAS

AIDS/HIV; Chemotaxis; Immune System; Inflammation ; Neurobiology; Wound Healing; Transplantation

RECONSTITUTION

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

REFERENCES

Irving SG, PF Zipfel, J Balke, OW McBride, CC Morton, PR Burd, U Siebenlist and K Kelly 1990 Nucleic Acids Res 18(11): 3261-3270. Widmer U, Z Yang, S van Deventer, KR Manogue, B Sherry and A Cerami 1991 J Immunol 146(11): 4031-4040. Alam R, PA Forsythe, S Stafford, MA Lett-Brown and JA Grant 1992 J Exp Med 176(3): 781-786. Rot A, M Krieger, T Brunner, SC Bischoff, TJ Schall and CA Dahinden 1992 J Exp Med 176(6): 1489-1495. Taub DD, AR Lloyd, JM Wang, JJ Oppenheim and DJ Kelvin 1993 Adv Exp Med Biol 351: 139-146.

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