

TECHNICAL DATA SHEET

Recombinant Human MDC (67a.a.) (CCL22) (Carrier-Free)

Catalog Number: 21-9151

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human MDC (67a.a.) (CCL22) (Carrier-Free)

DESCRIPTION

MDC is a CC chemokine that is produced in B cells, macrophages, monocyte-derived dendritic cells, activated NK cells, and CD4 T cells. It signals through the CCR4 receptor. MDC chemoattracts monocytes, dendritic cells and NK cells, and exerts HIV-suppressive activity. The 67 amino acid form of MDC displays reduced chemoattractant activity, but retains HIV-suppressive activity.

MOLECULAR MASS

Recombinant Human MDC is an 8.0 kDa protein containing 67 amino acid residues including the four highly conserved cysteine residues present in the CC chemokines.

AMINO ACID SEQUENCE

YGANMEDSVC CRDYVRYRLP LRVVKHFYWT SDSCRPGVV LLTFRDKEIC ADPRVPWVKM ILNKLSQ

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, Hamster, Human, Mouse

BIOACTIVITY

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

RESEARCH AREAS

AIDS/HIV, Immune System, Wound Healing, Chemotaxis

RECONSTITUTION

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

REFERENCES

Proost, P. Truncation of Macrophage-derived Chemokine by CD26/Dipeptidyl-Peptidase IV beyond Its Predicted Cleavage Site Affects Chemotactic Activity and CC Chemokine Receptor 4 Interaction. 1999. The Journal of Biological Chemistry; 274. Issue 7. Pp.3988-3993. Mateo, T. Angiotensin II-induced mononuclear leukocyte interactions with arteriolar and venular endothelium are mediated by the release of different CC chemokines. 2006. The Journal of Immunology; 176(9):5577-86.

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