

TECHNICAL DATA SHEET

Recombinant Human MIP-4/PARC (CCL18) (Carrier-Free)

Catalog Number: 21-9150

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human MIP-4/PARC (CCL18) (Carrier-Free)

DESCRIPTION

MIP-4 is a CC chemokine that is expressed in lymph nodes, lungs, placenta and bone marrow. MIP-4's primary receptor is unknown. MIP-4 chemoattracts lymphocytes, and has been shown to exert activity on both CD4+ and CD8+ T cells.

MOLECULAR MASS

Recombinant Human MIP-4 is a 7.8 kDa protein containing 68 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines.

AMINO ACID SEQUENCE

QVGTNKEKELCC LVYTSWQIPQ KFLVDYSETS PQCPKPGVIL LTKRGRQICA DPNKKWVQKY ISDLKLNA

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, Human + Mouse, Mouse

BIOACTIVITY

Assay #1: Determined by its ability to chemoattract human T lymphocytes using a concentration of 1.0-10.0 ng/ml. Assay #2: Determined by its ability to chemoattract human iDCs using a concentration of 1.0-10.0 ng/ml.

RESEARCH AREAS

Wound Healing, Chemotaxis

RECONSTITUTION

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

REFERENCES

Nibbs, R.J. C-C chemokine receptor 3 antagonism by the beta-chemokine macrophage inflammatory protein 4, a property strongly enhanced by an amino-terminal alanine-methionine swap. 2000. The Journal of Immunology; 164(3):1488-97. Gunther, C. CCL18 is expressed in atopic dermatitis and mediates skin homing of human memory T cells. 2005. The Journal of Immunology; 174(3):1723-8.

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