

TECHNICAL DATA SHEET

Recombinant Human CCL4 (MIP-1 β) (Carrier-free)

Catalog Number: 21-7097

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human CCL4 (MIP-1 β) (Carrier-free)

DESCRIPTION

CCL4 (MIP-1 β) is a mitogen-inducible monokine and member of the CC chemokine family. It is a secreted protein that plays a role in the acute inflammatory response and is a chemoattractant for monocytes, neutrophils, eosinophils, NK cells, and CD4+ T lymphocytes. MIP-1 beta can signal through CCR5 and, by inducing downregulation of this receptor, can block HIV-1 infection of T cells.

MOLECULAR MASS

Recombinant Human MIP-1 beta consists of 69 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines, and has a molecular weight of 7.6 kDa.

AMINO ACID SEQUENCE

APMGSDPPTA CCFSYTARKL PHNFVVDYYE TSSLCSQPAV VFQTKRGKQV CADPSESWVQ EYVYDLELN

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

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

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

Hamster, Monkey, Mouse, Rat, Bacteria

BIOACTIVITY

Using a concentration range of 5.0-20.0 ng/ml, activity is determined by its ability to chemoattract human blood monocytes.

RESEARCH AREAS

AIDS/HIV, Chemotaxis, Immune System, Inflammation, Neurobiology, Wound Healing

RECONSTITUTION

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

REFERENCES

Schall TJ, Bacon K, Camp RD, Kaspari JW and Goeddel DV. 1993. J Exp Med. 177(6): 1821-1826. Menten P1, Wuyts A and Van Damme J. 2002. Cytokine Growth Factor Rev. 13(6): 455-481. Mueller A and Strange PG. 2004. Int J Biochem Cell Biol. 36(1): 35-38.

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