

TECHNICAL DATA SHEET

Recombinant Mouse CCL20 (MIP-3 α) (Carrier-free)

Catalog Number: 21-8201

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse CCL20 (MIP-3 α) (Carrier-free)

DESCRIPTION

MIP-3 alpha, or CCL20, is a member of the CC chemokine family. MIP-3 alpha is a ligand for CC chemokine receptor 6 (CCR6) and this interaction is responsible for the chemoattraction of immature dendritic cells (DC) and effector/memory T and B cells. Additionally, CCL20 plays a role in the function of mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells. MIP-3 alpha is expressed mainly in peripheral blood lymphocytes, lymph nodes, liver, appendix, and fetal lung tissue and is induced by LPS, TNF, IFN gamma, and other inflammatory mediators.

MOLECULAR MASS

Recombinant Mouse MIP-3; is a 7.9 kDa protein containing 70 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines.

AMINO ACID SEQUENCE

ASNYDCCLSY IQTPLPSRAI VGFTRQMADE ACDINAIIFH TKKRKSVCAD PKQNWVKRAV NLLSLRVKKM

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/μg of protein (<1 EU/μg).

AUTHENTICITY

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

CROSS REACTIVITY

Human

BIOACTIVITY

Determined by its ability to chemoattract Mouse CCR6 transfected HEK/293 cells using a concentration range of 0.1-10.0 ng/ml.

RESEARCH AREAS

Chemotaxis; Wound Healing

RECONSTITUTION

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

REFERENCES

Hromas R, PW Gray, D Chantry, R Godiska, M Krathwohl, K Fife, GI Bell, J Takeda, S Aronica, M Gordon, S Cooper, HE Broxmeyer and MJ Klemsz 1997 Blood 89(9): 3315-3322. Greaves DR, W Wang, DJ Dairaghi, MC Dieu, B Saint-Vis, K Franz-Bacon, D Rossi, C Caux, T McClanahan, S Gordon, A Zlotnik and TJ Schall 1997 J Exp Med 186(6): 837-844. Tanaka Y, T Imai, M Baba, I Ishikawa, M Uehira, H Nomiya and O Yoshie 1999 Eur J Immunol 29(2): 633-642. Schutysse E, S Struyf and J Van Damme 2003 Cytokine Growth Factor Rev 14(5): 409-426.

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