

**TECHNICAL DATA SHEET**

# Recombinant Human CCL20 (MIP-3 $\alpha$ ) (Carrier-free)

Catalog Number: 21-8209

**RPx-Pro™ Recombinant Protein**

**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human CCL20 (MIP-3 $\alpha$ ) (Carrier-free)

**DESCRIPTION**

MIP-3 alpha or CCL20 is a CC chemokine family member with potent chemoattractant activity towards T cells and DCs especially as well as other lymphocytes, and less substantially for neutrophils. MIP-3 alpha is induced by microbes as well as other inflammatory factors including IFN gamma and TNF alpha, but is downregulated by IL-10. MIP-3 alpha is expressed in a wide variety of tissues including liver, fetal lung, appendix as well as lymphoid tissues and lymph nodes and is known to be produced by activated DCs.

**MOLECULAR MASS**

Recombinant Human MIP-3 $\alpha$  is an 8.0 kDa protein containing 70 amino acid residues.

**AMINO ACID SEQUENCE**

ASNFDCCLG Y TDRILHPKFI VGFTRQLANE GCDINAIIFH TKKKLSVCAN PKQTWVKYIV RLLSKVKVKNM

**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/ $\mu$ g of protein (<1 EU/ $\mu$ g).

**AUTHENTICITY**

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

**CROSS REACTIVITY**

Bacteria, Mouse, Rat

**BIOACTIVITY**

Assessed by chemoattract activity with human T cells using a concentration of 10.0-50.0 ng/ml.

**RESEARCH AREAS**

Chemotaxis; Wound Healing

**RECONSTITUTION**

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

**REFERENCES**

Hieshima K, T Imai, G Opendakker, J Van Damme, J Kusuda, H Tei, Y Sakaki, K Takatsuki, R Miura, O Yoshie and H Nomiyama 1997 J Biol Chem 272: 5846–5853. Baba M, T Imai, M Nishimura, M Kakizaki, S Takagi, K Hieshima, M Nomiyama and O Yoshie 1997 J Biol Chem 272: 14893–14898. Proost P and Van Damme J 2000 J Immunol 165: 4470–4477. Charbonnier AS, N Kohrgruber, E Kriehuber, et al. 2000 J Exp Med 190: 1755–1768.

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