

**TECHNICAL DATA SHEET**

# Recombinant Human CX3CL1 (Fractalkine) (Carrier-free)

Catalog Number: 21-8239

**RPx-Pro™ Recombinant Protein**

**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human CX3CL1 (Fractalkine) (Carrier-free)

**DESCRIPTION**

Fractalkine, also known as CX3CL1, is expressed in numerous cell types including neurons, intestinal epithelium, and vascular endothelium. Fractalkine is a CX3C chemokine and exists as membrane protein enhancing adhesion or a soluble form following cleavage by the metalloproteinase ADAM10. As a soluble chemokine, fractalkine has strong chemoattractant activities especially for dendritic cells, microglia, monocytes, NK cells, and T cells and regulates their trafficking through lymphatic tissues.

**MOLECULAR MASS**

Recombinant Human GM-CSF is a 14.6 kDa protein composed of 128 amino acids.

**AMINO ACID SEQUENCE**

QHHGVTKCNI TCSKMTSKIP VALLIHYQQN QASCGKRAII LETRQHRLFC ADPKEQWVKD AMQHLDQRQAA ALTRNG

**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**

Monkey, Mouse, Rat

**BIOACTIVITY**

Determined by its ability to chemoattract human T cells using a concentration range of 5.0-10.0 ng/ml.

**RESEARCH AREAS**

AIDS/HIV; Angiogenesis/Cardiovascular; Apoptosis; Cancer; Chemotaxis; Immune System; Inflammation; Neurobiology; Wound Healing

**RECONSTITUTION**

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

**REFERENCES**

Bazan JF, KB Bacon, G Hardiman, W Wang, K Soo, D Rossi, DR Greaves, A Zlotnik and TJ Schall 1997 Nature 385: 640-644. Pan Y, C Lloyd, H Zhou, S Dolich, SJ Deeds, JA Gonzalo, J Vath, M Gosselin, J Ma and B Dussault 1997 Nature 387:611-617. Hundhausen C, D Misztela, TA Berkhout, N Broadway, P Saftig, K Reiss, D Hrtmann, F Fahrenholz, R Postina, V Mathews, K-J Kallen, S Rose-John and A Ludwig 2003 Blood 102: 1186-1195. Johnson LA and DG Jackson 2013 J Cell Sci 126: 5259-5270.

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