

TECHNICAL DATA SHEET

Recombinant Human CXCL10 (IP-10) (Carrier-free)

Catalog Number: 21-8317

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human CXCL10 (IP-10) (Carrier-free)

DESCRIPTION

IP-10 is a CXC chemokine that signals through the CXCR3 receptor. IP-10 selectively chemoattracts Th1 lymphocytes and monocytes, and inhibits cytokine-stimulated hematopoietic progenitor cell proliferation. Additionally, it is angiostatic and mitogenic for vascular smooth muscle cells.

MOLECULAR MASS

Recombinant Human IP-10 is an 8.6 kDa protein consisting of 77 amino acids.

AMINO ACID SEQUENCE

VPLSRTVRCT CISISNQPVN PRSLEKLEII PASQFCPRVE IIATMKKKGE KRCLNPESKA IKNLLKAVSK ERSKRSP

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, Hamster

BIOACTIVITY

Tested by activity as chemoattractant for human T-Lymphocytes using a concentration of 10-50 ng/ml.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Chemotaxis; Immune System; Inflammation ; Neurobiology; Proliferation; Wound Healing; Allergy: Transplantation

RECONSTITUTION

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

REFERENCES

Luster AD, JC Unkeless and JV Ravetch 1985 Nature 315: 672–676. Dufour JH, M Dziejman, MT Liu, JH Leung, TE Lane and AD Luster 2002 J Immunol 168: 3195–204. Angiolillo AL, C Sgadari, DD Taub, F Liao, JM Farber, S Maheshwari, HK Kleinman, GH Reaman and G Tosato J Exp Med 182: 155–62. Booth V, DW Keizer, MB Kamphuis, I Clark-Lewis and BD Sykes 2002 Biochemistry 41: 10418–10425. Lagging M, AI Romero, J Westin, G Norkrans, AP Dhillon, JM Pawlotsk, S Zeuzem, M von Wagner, F Negro, SW Schalm, BL Haagmans, C Ferrari, G Missale, AU Neumann, E Verheij-Hart and K Hellstrand 2006 Hepatology 44(6): 1617–1625.

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