

TECHNICAL DATA SHEET

Recombinant Human CCL2 (MCP-1)

Catalog Number: 21-8159

RPx-Pro™ Recombinant Protein PRODUCT INFORMATION

CONTENTS

Recombinant Human CCL2 (MCP-1)

DESCRIPTION

Monocyte chemoattractant protein-1, MCP-1, also known as Chemokine (C-C motif) ligand 2, CCL2, is a member of the CC chemokine family and is expressed in endothelial cells, smooth muscle cells and monocytes. At sites of inflammation MCP-1 is known to recruit monocytes, memory T cells and dendritic cells. MCP-1 is implicated in the pathogenesis of psoriasis, rheumatoid arthritis and atherosclerosis.

MOLECULAR MASS

Recombinant Human MCP-1 (CCL2) is an 8.6 kDa protein composed of 76 amino acid residues.

AMINO ACID SEQUENCE

QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE ICADPKQKWV QDSMDHLDKQ TQTPKT

SOURCE

E. Coli

PROTEIN CONTENT

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

PURITY

98 %

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).

AUTHENTICITY

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

CROSS REACTIVITY

Bacteria, Chicken, Hamster, Monkey, Mouse, Rat

BIOACTIVITY

Determined by its ability to chemoattract human monocytes using a concentration range of 10.0-100.0 ng/ml.

APPLICATIONS

Bioassay

RESEARCH AREAS

Angiogenesis/Cardiovascular; Cancer; Chemotaxis; Immune System; Inflammation ; Neurobiology; Wound Healing; Allergy

STORAGE

-20°C

RECONSTITUTION

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

REFERENCES

Carr, M. W.; Roth, S. J.; Luther, E.; Rose, S. S.; Springer, T. A. (1994). "Monocyte chemoattractant protein 1 acts as a T-lymphocyte chemoattractant". *Proceedings of the National Academy of Sciences of the United States of America* 91 (9): 3652–3656. Xu, L. L.; Warren, M. K.; Rose, W. L.; Gong, W.; Wang, J. M. (1996). "Human recombinant monocyte chemoattractant protein and other C-C chemokines bind and induce directional migration of dendritic cells in vitro". *Journal of leukocyte biology* 60 (3): 365–371. Xia, M.; Sui, Z. (2009). "Recent developments in CCR2 antagonists". *Expert Opinion on Therapeutic Patents* 19 (3): 295–303.

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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