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TECHNICAL DATA SHEET

# Recombinant Mouse CCL2 (MCP-1)

Catalog Number: 21-8152

## RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

### CONTENTS
Recombinant Mouse CCL2 (MCP-1)

### DESCRIPTION
Monocyte chemotactic 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 inflamation MCP-1 is known to recruit monocytes, memory T cells and dendritic cells. MCP-1 is implicated in the pathogenisis of psoriasis, rheumatoid arthritis and atherosclerosis.

### MOLECULAR MASS
Recombinant Mouse MCP-1 (CCL2) is a 13.8 kDa protein containing 125 amino acid residues

### AMINO ACID SEQUENCE
QPDAVNAPLT CCYSFTSKMI PMSRLESYKR ITSSRCPKEA VVFVTKLKRE VCADPKKEWV QTYIKNLDRN QMRSEPTTLF KTASALRSSA PLNVKLTRKS EANASTTFST TTSSTSVGVT SVTVN

### 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, Human, Mouse, Rabbit, Monkey

### BIOACTIVITY
Determined by its ability to chemoattract Balb/C mouse spleen MNCs using a concentration range of 1.0-20.0 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 specfic 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 chemotactic 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.