

# Recombinant rat CCL2/MCP-1 protein

Catalog Number: ATGP4002

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

24-148aa

### UniProt No.

P14844

### NCBI Accession No.

NP\_113718

### Alternative Names

C-C motif chemokine 2, HC11, JE, MCAF, MCP-1, MCP1, Scya2, Sigje, SMC-CF, Immediate-early serum-responsive protein JE, Monocyte chemoattractant protein 1, Monocyte chemotactic protein 1, Small-inducible cytokine A2

## PRODUCT SPECIFICATION

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### Molecular Weight

15.1kDa (134aa)

### Concentration

0.5mg/ml (determined by Absorbance at 280nm)

### Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Chemokine (C-C motif) ligand 2 (CCL2) is a small cytokine belonging to the CC chemokine family that is also known as monocyte chemotactic protein-1 (MCP-1). CCL2 recruits monocytes, memory T cells, and dendritic cells to sites of tissue injury and infection. It binds to chemokine receptors CCR2 and CCR4. It also induces enzyme

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and cytokine release by monocytes, NK cells and lymphocytes, and histamine release by basophils, primarily due to interaction with CCR2 receptors on these cells. It has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. Recombinant rat CCL2/JE/MCP-1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

<ADP>QPDAVNA PLTCCYSFTG KMIPMSRLEN YKRITSSRCP KEAVFVTKL KREICADPNK EWWQKYIRKL DQNQVRSETT VFYKIASTLR TSAPLNVNLT HKSEANASTL FSTTTSSTSV EVTSMTEN<HH HHHH>

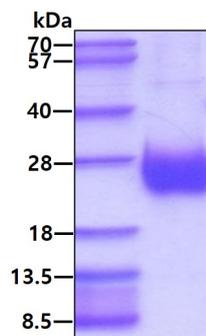
## General References

Foresti ML, Arisi GM, et al. (2009). J Neuroinflammation. 6:40.

Semple BD, Bye N, et al. (2010). J Cereb Blood Flow Metab. 30:769-782.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain