

Catalog Number: Eg0397

## Basic Information

**Species:**  
Rat**Purity:**  
>80 %, SDS-PAGE**Tag:**  
His Tag

## Technical Specifications

**Purity:**

&gt;80 %, SDS-PAGE

**Endotoxin Level:**

&lt;0.1 EU/μg protein, LAL method

**Source:**

HEK293-derived Rat CCL2 protein Gln24-Asn148 (Accession# P14844) with a His tag at the C-terminus.

**GeneID:**

24770

**Accession:**

P14844

**Predicted Molecular Mass:**

19.1 kDa

**SDS-PAGE:**

38-60 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Monocyte chemotactic protein 1 (MCP1; also known as CCL2), is a chemokine that can be expressed in monocytes, macrophages, and endothelial cells, and belongs to the CC subfamily of chemokines. Chemokines are a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. Research has shown that the expression of MCP1 increases in the serum of patients with acute myocarditis. MCP1 is up-regulated in many types of CNS injury, including ischemia, hemorrhage, trauma, infection, hypoxia, and peripheral nerve axotomy. MCP1 has also been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, such as psoriasis, rheumatoid arthritis, and atherosclerosis.

## References

1. Sørensen T. et al. (2004) Eur J Neurol. 11: 445-9.
2. Kusano KF. et al. (2004) Circ J. 68: 671-6.
3. Hayashida K. et al. (2001) Arthritis Res. 3: 118-26.
4. Dimitrijevic OB. et al. (2006) J Cereb Blood Flow Metab. 26:797-8105. Mahad DJ. et al. (2003) Semin Immunol. 15:

## Synonyms

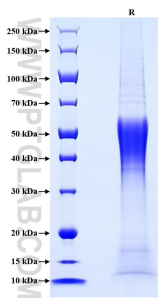
MCP-1/CCL2, C-C motif chemokine 2, CCL 2, CCL-2, chemokine (C C motif) ligand 2

## For technical support and original validation data for this product please contact

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 W: [ptglab.com](http://ptglab.com)

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Selected Validation Data



Purity of Recombinant Rat CCL2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.