

## CCL2 (MCP-1) Human E. coli

### Product Data Sheet

**Type:** Recombinant

**Source:** E. coli

**Species:** Human

**Other names:** C-C motif chemokine 2, CCL2, MCP1, SCYA2

**Cat. No.:**

RD172386050

(0.05 mg)

### Description

Total 76 AA. MW: 8,7 kDa (calculated). UniProtKB acc.no.P13500(24-99) Protein identity confirmed by LC-MS/MS.

### Introduction to the Molecule

Monocyte chemoattractant protein-1 (MCP-1) (CCL2) is produced by many cell types at sites of inflammation. It regulates chemotaxis and transendothelial migration of monocytes, as well as memory T cells and natural killer cells by interacting with their membrane surface receptor CCR2. MCP-1 has also been implicated in a number of disease states, such as rheumatoid arthritis, atherosclerosis, autoimmune diseases, tumor progression, and HIV infection.

### Research topic

Chemokines, Cytokines and chemokines and related molecules, Energy metabolism and body weight regulation

### Amino Acid Sequence

QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE ICADPKQKWV QDSIDHLDKQ TQTPKT

### Source

E. coli

### Purity

Purity as determined by SDS PAGE: > 97%

### Biological Activity

EC50 = 0.067nM determined by Migration of recombinant CCR2 containing cells

### Endotoxin

<0.01 EU /1µg

### Reconstitution

Add sterile water to prepare a working stock solution of approximately 0.1 mg/ml and let the lyophilized pellet dissolve completely.

### Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

### Storage, Stability/Shelf Life

Store the lyophilized protein at -20 to -70 °C. Lyophilized protein remains stable until the expiry date when stored at -20 to -70 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -20 to -70 °C, the protein is stable for 3 months at -20 to -70 °C under sterile conditions after reconstitution. Reconstituted protein can be stored at 4 °C for 1 month under sterile conditions after reconstitution.

### Quality Control Test

Quantification is done by A280, using the calculated extinction coefficient (10486 M<sup>-1</sup> cm<sup>-1</sup>).

SDS-PAGE to determine purity of the protein.

LAL TEST to determine endotoxin level.

### Applications

Biologically active protein, Cell culture and/or animal studies, ELISA, Western blotting

**Note**

This product is intended for research use only.

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