

# Recombinant Human CCL2/MCP-1 Protein

Catalog Number:PKSH032190



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

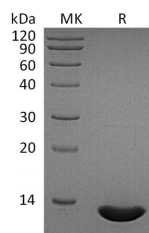
## Description

<b>Synonyms</b>	C-C motif chemokine 2;HC11;Monocyte chemoattractant protein 1;Monocyte chemotactic and activating factor;MCAF;Monocyte chemotactic protein 1;MCP-1;Monocyte secretory protein JE;Small-inducible cytokine A2;CCL2
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Gln24-Thr99
<b>Accession</b>	P13500
<b>Calculated Molecular Weight</b>	9.5 kDa
<b>Observed molecular weight</b>	11 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Measure by its ability to chemoattract BaF3 cells transfected with human CCR2A. The ED <sub>50</sub> for this effect is < 20 ng/mL.

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 0.1 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

The chemokine (C-C motif) ligand 2 (CCL2), also known as monocyte chemoattractant protein (MCP)-1 and small inducible cytokine A2 (SCYA2)), is a small cytokine that belongs to the CC chemokine family responsible for monocyte attraction. Its cognate receptor, CCR2, play a critical role in regulating nociceptive processes during neuropathic pain. Both CCL2 and CCR2 are implicated in induction of autoimmunity. CCL2 recruits monocytes, memory T cells, and

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dendritic cells to the sites of inflammation produced by either tissue injury or infection. Recently research also showed that CCL2 might be useful as a biomarker of fibrosis as well as a target for therapeutic intervention.

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