

## Recombinant Human Chemokine (C-C Motif) Ligand 2

Cat. No. CCL2-124H Lot. No. (See product label)

### SPECIFICATION

**Species**

Human

**Source**

Mammalian Cells

**Description**

Monocyte chemoattractant protein-1 (MCP-1) is an essential chemokine produced predominantly by macrophages and endothelial cells and is a potent chemotactic factor for monocytes. It can induce the proliferation and activation of killer cells known as CHAK (CC-Chemokine-activated killer). MCP-1 is also a potent activator of human basophils, induces degranulation and the release of histamines. MCP-1 is involved in the pathogenesis of atherosclerosis and myocardial infarction.

**State Of Matter**

Lyophilized.

**Purity**

&gt;97% by SDS Page and analyzed by silver stain.

**Endotoxin**

&lt;0.1 ng per 1 g as determined by the LAL method.

**Molecular Weight**

The predicted molecular weight of Recombinant Human MCP-1 is Mr 35 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 70-95 kDa.

**Storage And Stability**

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

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## GENE INFORMATION

<b>Gene Name</b>	CCL2 chemokine (C-C motif) ligand 2 [ Homo sapiens ]
<b>Synonyms</b>	CCL2; chemokine (C-C motif) ligand 2; GDCF-2; HC11; HSMCR30; MCAF; MCP-1; MCP1; MGC9434; SCYA2; SMC-CF; monocyte chemoattractant protein-1; monocyte chemotactic and activating factor; monocyte secretory protein JE; small inducible cytokine A2; small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-je); small inducible cytokine subfamily A (Cys-Cys), member 2; Monocyte chemoattractant protein 1; Monocyte chemotactic and activating factor; Monocyte chemotactic protein 1; Monocyte secretory protein JE; Small-inducible cytokine A2
<b>Gene ID</b>	6347
<b>mRNA Refseq</b>	NM_002982
<b>Protein Refseq</b>	NP_002973
<b>MIM</b>	158105
<b>UniProt ID</b>	P13500
<b>Chromosome Location</b>	17q11.2-q12
<b>Pathway</b>	Cytokine-cytokine receptor interaction; Chemokine signaling pathway
<b>Function</b>	CCR2 chemokine receptor binding; G-protein-coupled receptor binding; chemokine activity; heparin binding; signal transducer activity; protein kinase activity

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