

## Recombinant Mouse chemokine (C-C motif) ligand 2, His-tagged

**Cat. No.** CCL2-559M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | CCL2, 24-148aa, Mouse His tag, E.coli  |
| <b>Species</b>          | Mouse  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | 24-148 a.a.  |
| <b>Description</b>      | 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 has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, like psoriasis, rheumatoid arthritis and atherosclerosis. It binds to chemokine receptors CCR2 and CCR4. Recombinant mouse CCL2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| <b>Form</b>             | Liquid. In PBS (pH 7.4) containing 10% glycerol.   |
| <b>Molecular Mass</b>   | 16 kDa (146aa) confirmed by MALDI-TOF  |
| <b>AA Sequence</b>      | MGSSHHHHHH SSGLVPRGSH MQPDAVNAPL TCCYSFTSKM IPMSRLESYK<br>RITSSRCPKE AVVFVTKLKR EVCADPKKEW VQTYIKNLDR NQMRSEPTTL<br>FKTASALRSS APLNVKLTRK SEANASTTFS TTTSTSTSGV TSVTVN   |

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|                         |  |
|-------------------------|--|
| <b>Purity</b>           | >90% by SDS - PAGE   |
| <b>Storage</b>          | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.   |
| <b>Concentration</b>    | 0.25 mg/ml (determined by Bradford assay)  |
| <b>GENE INFORMATION</b> |  |
| <b>Gene Name</b>        | Ccl2 chemokine (C-C motif) ligand 2 [ <i>Mus musculus</i> ]  |
| <b>Official Symbol</b>  | CCL2   |
| <b>Synonyms</b>         | CCL2; chemokine (C-C motif) ligand 2; C-C motif chemokine 2; small inducible cytokine A2; small-inducible cytokine A2; monocyte chemotactic protein 1; monocyte chemoattractant protein 1; monocyte chemoattractant protein-1; platelet-derived growth factor-inducible protein JE; JE; HC11; MCAF; MCP1; MCP-1; Scya2; Sigje; SMC-CF; AI323594; |
| <b>Gene ID</b>          | <a href="#">20296</a>  |
| <b>mRNA Refseq</b>      | <a href="#">NM_011333</a>  |
| <b>Protein Refseq</b>   | <a href="#">NP_035463</a>  |
| <b>Pathway</b>          | Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem;  |
| <b>Function</b>         | CCR2 chemokine receptor binding; CCR2 chemokine receptor binding; G-protein coupled receptor binding; chemokine activity; cytokine activity; heparin binding; protein binding;   |

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