

Active Recombinant Mouse Ccl2 Protein

Cat. No. Ccl2-130M **Lot. No.** (See product label)

SPECIFICATION

Product Overview Purified recombinant protein of Mouse chemokine (C-C motif) ligand 2 (Ccl2) without tag was expressed in E.coli.

Species Mouse

Source E.coli

Description This gene is one of several cytokine genes clustered on chromosome 11. Chemokines are a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of N-terminal cysteine residues of the mature peptide. This chemokine is a member of the CC subfamily which is characterized by two adjacent cysteine residues. This cytokine displays chemotactic activity for monocytes and memory T cells but not for neutrophils. The human ortholog has been implicated in the pathogenesis of diseases characterized by monocytic infiltrates, such as psoriasis, rheumatoid arthritis, and atherosclerosis.

Bio-activity Determined by its ability to chemoattract Balb/C mouse spleen MNCs using a concentration range of 1.0-20.0 ng/ml.

Molecular Mass 13.8 kDa

AA Sequence QPDAVNAPLTCCYSFTSKMIPMSRLESYKRITSSRCPKEAVVFVTKLKREVCADPKK
EWVQTYIKNLDNRNQMRSEPTTLFKTASALRSSAPLNVKLTRKSEANASTTFSTTTSS
TSVGVTSVTVN

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|-----------------------|---|
| Endotoxin | Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g) |
| Purity | >95%, as determined by SDS-PAGE and Coomassie blue staining |
| Stability | Stable for at least 6 months from date of receipt under proper storage and handling conditions. |
| Storage | Store at -80 centigrade. |
| Storage Buffer | Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2 |
| Reconstitution | Resuspend the protein in the desired concentration in proper buffer. |

GENE INFORMATION

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|------------------------|--|
| Gene Name | Ccl2 chemokine (C-C motif) ligand 2 [<i>Mus musculus</i> (house mouse)] |
| Official Symbol | Ccl2 |
| Synonyms | Ccl2; chemokine (C-C motif) ligand 2; JE; HC11; MCAF; MCP1; MCP-1; Scya2; Sigje; SMC-CF; AI323594; C-C motif chemokine 2; monocyte chemoattractant protein 1; monocyte chemotactic protein 1; platelet-derived growth factor-inducible protein JE; small-inducible cytokine A2 |
| Gene ID | 20296 |
| mRNA Refseq | NM_011333 |
| Protein Refseq | NP_035463 |

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UniProt ID

P10148



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