

## Active Recombinant Mouse Chemokine (C-C Motif) Ligand 8

**Cat. No.** Ccl8-285M    **Lot. No.** (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant Mouse MCP-2, also known as CCL8, produced in E.coli is a non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8,504 Daltons.                                                                                                                                                                             |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>         | Chemokine (C-C motif) ligand 8, also known as monocyte chemoattractant protein 2 (MCP-2), is a protein that in humans is encoded by the CCL8 gene. CCL8 is a small cytokine belonging to the CC chemokine family. The CCL8 protein is produced as a precursor containing 109 amino acids, which is cleaved to produce mature CCL8 containing 75 amino acids. |
| <b>Form</b>                | Lyophilized with no additives.                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>              | Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>        | MCP-2 is fully biologically active when compared to standard. The specific activity as determined by the ability of MCP-2 to chemoattract human peripheral blood at 10-100ng/ml.                                                                                                                                                                             |
| <b>Physical Appearance</b> | Sterile Filtered white lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                    |

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|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Solubility</b>                               | It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.                             |
| <b>Purity Greater than 98% as determined by</b> | Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.                                                                                                                                             |
| <b>Protein Content determined by</b>            | UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.                                                               |
| <b>Amino acid sequence</b>                      | GPDKAPVTCC FHV LKLKIPL RVLKSYERIN NIQCPMEAVVQTKQGMSLC<br>VDPTQKWVSE YMEILDQKSQ ILQP                                                                                                                  |
| <b>Storage</b>                                  | Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage. |

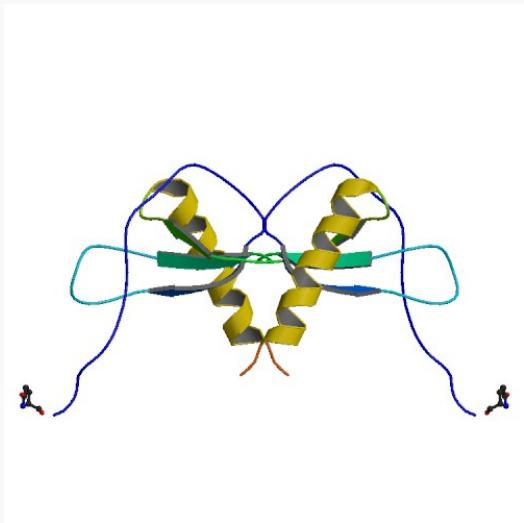
## GENE INFORMATION

|                        |                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Ccl8 chemokine (C-C motif) ligand 8 [ Mus musculus ]</a>                                                                                                         |
| <b>Official Symbol</b> | <a href="#">Ccl8</a>                                                                                                                                                         |
| <b>Synonyms</b>        | Ccl8; chemokine (C-C motif) ligand 8; HC14; Mcp2; MCP-2; Scya8; AB023418; OTTMUSP00000000873; small inducible cytokine A8; monocyte chemoattractant protein-2; 1810063B20Rik |
| <b>Gene ID</b>         | <a href="#">20307</a>                                                                                                                                                        |
| <b>mRNA Refseq</b>     | <a href="#">NM_021443</a>                                                                                                                                                    |

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|-------------------------------------|-------------------------------------------------------------------------------------|
| <b>Protein Refseq</b>               | NP_067418                                                                           |
| <b>UniProt ID</b>                   | Q9Z121                                                                              |
| <b>Chromosome Location</b>          | 47.0 cM                                                                             |
| <b>Pathway</b>                      | 1810063B20Rik; Chemokine signaling pathway; Cytokine-cytokine receptor interaction  |
| <b>Function</b>                     | chemokine activity; cytokine activity; heparin binding                              |
| <b>PDB rendering based on 1esr.</b> |  |