

Recombinant Mouse Chemokine (C-C Motif) Ligand 12

Cat. No. Ccl12-93M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse chemokine (C-C motif) ligand 12 is produced in <i>E. Coli</i> .
Species	Mouse
Source	E.coli
Description	Murine macrophage/monocyte chemotactic protein-5 (MCP-5) is a member of the B-chemokine family (C-C) of cytokines. This chemokine is strongly chemotactic for human monocytes and murine peritoneal macrophages but is not active on mouse neutrophils and shows only a weak response on mouse eosinophils at high concentrations. MCP-5 is a peptide of 9.2 kDa that consists of 82 amino acid residues.
Supplied	Powder with no additives.
Purity	> 99% by SDS-Page and HPLC analysis Endotoxin level is less than 0.1ng per ug of MCP-5.
Reconstitution	The MCP-5 should be reconstituted in water to a concentration of 1mg/ml. Allow to set at least 30 minutes at 4 °C , tighten cap and rotate to reconstitute any material on sides of vial. If desired, you can centrifuge at 1000rpm for 1 minute to concentrate volume in bottom of vial. This solution can be diluted into water or other buffered solutions containing carrier protein or medium containing serum. This solution can be diluted into other buffered solutions or stored at -20

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°C for future use.

Note

If this material is not to be used for coating or labeling (or other applications requiring carrier free material), the addition of 0.1% BSA or dilution in sterile culture media is recommended to enhance stability and minimize absorption to vial.

Reactivity

The maximal chemotactic activity of murine MCP-5 was determined by a chemotaxis assay using human peripheral blood monocytes. Significant chemotaxis was achieved using a concentration of 50ng/ml.

Storage

The powder is stable at room temperature but it is best stored desiccated below 0°C. Reconstituted MCP-5 should be stored in working aliquots at -20°C. Avoid Frequent Freeze-Thaw Cycles.

GENE INFORMATION

Gene Name

Ccl12 chemokine (C-C motif) ligand 12 [*Mus musculus*]

Synonyms

Ccl12; chemokine (C-C motif) ligand 12; MCP-5; Scya12; OTTMUSP00000000792; small inducible cytokine A12

Gene ID

20293

mRNA Refseq

NM_011331

Protein Refseq

NP_035461

UniProt ID

Q62401

**Chromosome
Location**

11 47.0 cM

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Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction
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Function	chemokine activity; cytokine activity
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