

Recombinant Murine Chymase 1, Mast cell

Cat. No. Cma1-101M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Murine MCP-5 produced in <i>E.coli</i> is a peptide of 9.2 kDa that consists of 82 amino acid residues.
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.
Form	Lyophilized.
Biologically Activity	The biological activity of murine MCP-5 was determined by a chemotaxis assay using human peripheral blood monocytes. Significant chemotaxis was achieved using a concentration of 50 ng/ml.
Purity	> 99% (SDS-PAGE; HPLC).
Stabilizer	None.
Endotoxin Level	< 0.1 ng/g of MCP-5.

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Reconstitution The lyophilized murine MCP-5 is soluble in water and most aqueous buffers. The lyophilized protein can be reconstituted in water to a concentration of 1.0 mg/ml. This solution can be diluted into other buffered solutions or stored at - 20°C for future use.

Stability The lyophilized murine MCP-5, though stable at room temperature, is best stored desiccated below 0°C. Reconstituted murine MCP-5 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name [Cma1 chymase 1, mast cell \[Mus musculus \]](#)

Synonyms Cma1; chymase 1, mast cell; Mcp-5; Mcpt5; MMCP-5; mast cell protease 5; EC 3.4.21.39

Gene ID [17228](#)

mRNA Refseq [NM_010780](#)

Protein Refseq [NP_034910](#)

UniProt ID [P21844](#)

Chromosome Location 20.0 cM

Pathway Renin-angiotensin system

Function hydrolase activity; peptidase activity; serine-type endopeptidase activity; serine-type peptidase activity

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