

Recombinant Mouse Monocyte Chemotactic Protein-5 (rm CCL12 / MCP-5)

Synonyms: C-C motif chemokine 12, MCP-1-related chemokine, Monocyte chemoattractant protein 5, Small-inducible cytokine A12, Ccl12, Mcp5, Scya12.

Introduction: MCP-5 (CCL12) is a cloned mouse CC chemokine most closely related to human MCP1 (66% amino acid sequence identity in the mature protein). It is expressed constitutively in the thymus and the lymph nodes. Under inflammatory conditions, moreover MCP-5 expression is induced in activated macrophages and mast cells. The mouse MCP1 gene is mapped to the CC chemokine cluster on chromosome 11. Recombinant MCP-5 is a potent chemoattractant for monocytes and lymphocytes but not neutrophils. At high concentrations, MCP-5 also chemoattracts eosinophils. It is a functional ligand for CCR2.

Description: **Recombinant mouse** MCP-5 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 82 amino acids and having a molecular mass of 9.3kDa. The MCP5 is purified by proprietary chromatographic techniques

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2µm filtered concentrated solution in 1×PBS, pH 7.4. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized MCP5 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized MCP-5 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCP5 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles

Purity: Greater than 97.0% as determined by RP-HPLC and by SDS-PAGE

Amino Acid Sequence: GPDAVSTPVT CCYNVVKQKI HVRKLKSYRR ITSSQCPREA VIFRTILDKE ICADPKEKWV KNSINHLDKT SQTFILEPSC LG.

Biological Activity: Determined by its ability to chemoattract human peripheral blood monocytes using a concentration range of 10.0-50.0 ng/ml.

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12345220
<i>medium</i>	25 µg	Cat.N°	12335224

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