

MCP-5/CCL12, Mouse

Cat. No.: Z03283-1

Size: 1.0 mg

Synonyms: MCP-5, Monocyte Chemotactic Protein-5, CCL12

Description:

Monocyte Chemotactic Protein-5 (MCP-5), also known as Chemokine (C-C motif) ligand 12 (CCL12), is a small cytokine belonging to the CC chemokine family that has been characterized in mice. Due to its similarity with human chemokine MCP-1, sometimes it is called MCP-1-related chemokine. MCP-5 specifically attracts eosinophils, monocytes and lymphocytes. It can signal through the CCR2 receptor. Recombinant Mouse MCP-5/CCL12 produced in CHO cells is a polypeptide chain containing 82 amino acids. A fully biologically active molecule, rmMCP-5/CCL12 has a molecular mass of 11 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001 GPDAVSTPVT CCYNVVKQKI HVRKLSYRR ITSSQCPREA  
00041 VIFRTILDKE ICADPKKQWV KNSINHLDKT SQTFILPESC  
00081 LG
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Source: CHO

Species: Mouse

Biological Activity: The EC₅₀ value of mouse MCP-5/CCL12 on Ca²⁺ mobilization assay in CHO-K1/G α 15/mCCR2 cells (human G α 15 and mouse CCR2 stably expressed in CHO-K1 cells) is less than 0.5 μ g/ml.

Molecular Weight: 9.3-11 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Purity: > 98% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/ μ g, determined by LAL method.

Storage: Lyophilized recombinant Mouse MCP-5/CCL12 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse MCP-5/CCL12 should be stable up to 1 week at 4°C or up to 2 months at -20°C.