

MCP 5 Mouse

Description: MCP-5 Mouse Recombinant 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.

Catalog #: CHPS-273

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: GPDAVSTPVT CCYNVVKQKI HVRKLKSYRR ITSSQCPREA
VIFRTILDKE ICADPKEKVV KNSINHLDKT SQTFILPSC LG.

Purity: Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

Lyophilized from a 0.2

Stability:

Lyophilized CCL12 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized MCP5 in sterile 18M-cm H₂O not less than 100

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). MCP5 is expressed constitutively in the thymus and the lymph nodes. Under inflammatory conditions, moreover CCL12 expression is induced in activated macrophages and mast cells. The mouse MCP1 gene is mapped to the CC chemokine cluster on chromosome 11. Recombinant CCL12 is a potent chemoattractant for monocytes and lymphocytes but not neutrophils. At high concentrations, MCP-5 also chemoattracts eosinophils. CCL12 is a functional ligand for CCR2.

Biological Activity:

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

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