

MCP 3 Mouse

Description: Monocyte Chemotactic Protein-3 Mouse Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 74 amino acids and having a molecular mass of 8510 Dalton. The MCP-3 is purified by proprietary chromatographic techniques.

Catalog #: CHPS-325

For research use only.

Synonyms: Small inducible cytokine A7, CCL7, Monocyte chemotactic protein 3, MCP-3, Monocyte chemoattractant protein 3, NC28, chemokine (C-C motif) ligand 7, FIC, MARC, MCP3, SCYA6, SCYA7, MGC138463, MGC138465.

Source: Escherichia Coli.

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

Amino Acid Sequence: QPDGPNASTC CYVKKQKIPK RNLKSYRRIT SSRCPWEAVI
FKTKKGMEVC AEAHQKWVEE AIAYLDMKTP TPKP.

Purity: Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.

Stability:

Lyophilized MCP-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL7 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 Monocyte Chemotactic Protein-3 in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

Chemokine (C-C motif) ligand 7 (CCL7) is a small cytokine known as a chemokine that was previously called monocyte-specific chemokine 3 (MCP3). Due to CCL7 possessing two adjacent N-terminal cysteine residues in its mature protein, it is classified among the subfamily of chemokines known as CC chemokines. CCL7 specifically attracts monocytes, and regulates macrophage function. It is produced by certain tumor cell lines and by macrophages. This chemokine is located on chromosome 17 in humans, in a large cluster containing many other CC chemokines and is most closely related to CCL2 (previously called MCP1).

Biological Activity:

The specific activity as determined by the ability of Mouse MCP-3 to chemoattract Balb/C mouse spleen MNCs at 10-100ng/ml corresponding to a Specific Activity of 10,000-100,000 IU/mg.

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