

Product Data Sheet

Cat # RP-1022

Recombinant Murine Monocyte Chemotactic Protein-3 (CCL7)

**Size:** 10 ug

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).

**Source:** *Escherichia Coli*. 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. The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.

**Applications and Suggested Dilutions:** Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-3 in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and 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). If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.  
**Please prevent freeze-thaw cycles.**

**Biological Activity:** The specific activity as determined by the ability of Mouse MCP-3 to chemoattract Balb/C mouse spleen MNCs at 10-100 ng/ml.

**Usage:**

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals

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