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## Product Data Sheet

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Product Name: MCP 3 Mouse  
 Cat. No.: GP21158  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	QPDGPNASTC CYVKKQKIPK RNLKSYRRIT SSRCPWEAVI FKTKKGMEVC AEAHQKWVEE AIAYLDMKTP TPKP.		
Solubility	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.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives.		

### 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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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mouse spleen MNCs at 10-100ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

### Stability

Lyophilized MCP-3 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution CCL7 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

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.

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