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## Product Data Sheet

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Product Name: MCP 3 Rat  
 Cat. No.: GP21159  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	C-C motif chemokine 7; Monocyte chemoattractant protein 3; Monocyte chemotactic protein 3; MCP-3; Small-inducible cytokine A7; Ccl7; Mcp3; Scya7.		
Amino Acid Sequence	QPDGTNSSTC CYVKKQKIPK RNLKSYRKIT SSRCPWEAVI FKTKKGMEVC AEAHQKWVEE AIAYLDMKTS TPKP.		
Solubility	It is recommended to reconstitute the lyophilized MCP-3 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	MCP-3 protein was lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, 300mM NaCl, pH 7.4.		

### 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

Determined by its ability to chemoattract human peripheral blood monocytes using a concentration range of 50.0-300.0 ng/ml.

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

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### Stability

Lyophilized MCP-3 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution MCP3 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

MCP-3 Rat Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 74 amino acids and having a molecular mass of 8.5kDa. The MCP-3 is purified by proprietary chromatographic techniques.

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