
Product Data Sheet

Product Name: MCP 3 Human
Cat. No.: GP21157
Batch No.: 1

Product Data

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|---------------------|--|--------------------|-----------------------|
| 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 | The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Pro-Val-Gly-Ile. | | |
| Solubility | It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-3 in sterile 18MΩ-cm H ₂ 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 MCP-3 to chemoattract human

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

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peripheral blood at 8 - 80ng/ml corresponding to a Specific Activity of 12,500-125,000IU/mg.

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.

Background

Monocyte Chemotactic Protein-3 Human Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 76 amino acids and having a molecular mass of 9011 Dalton. The MCP-3 is purified by proprietary chromatographic techniques.

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