

Recombinant Human Chemokine (C-C Motif)Ligand 7

Cat. No. CCL7-36H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human Monocyte Chemotactic Protein-3 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. |
| Species | Human |
| Source | E.coli |
| Description | 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). |
| 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. |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Purity | Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. |

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| Formulation | The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing no additives. |
| Solubility | It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-3 in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions. |
| Biological Activity | The specific activity as determined by the ability of MCP-3 to chemoattract human peripheral blood at 10-100ng/ml. |
| Storage | 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. |

GENE INFORMATION

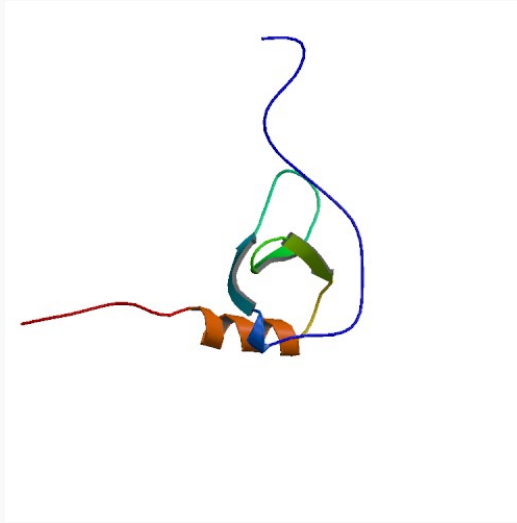
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| Gene Name | CCL7 chemokine (C-C motif) ligand 7 [Homo sapiens] |
| Synonyms | CCL7; chemokine (C-C motif) ligand 7; FIC; MARC; MCP3; NC28; MCP-3; SCYA6; SCYA7; MGC138463; MGC138465; monocyte chemotactic protein 3; monocyte chemoattractant protein 3; small inducible cytokine A7 |
| Gene ID | 6354 |
| mRNA Refseq | NM_006273 |
| Protein Refseq | NP_006264 |
| MIM | 158106 |

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| UniProt ID | P80098 |
| Chromosome Location | 17q11.2-q12 |
| Pathway | Chemokine signaling pathway; Cytokine-cytokine receptor interaction |
| Function | chemokine activity; heparin binding |



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