

Recombinant Mouse chemokine (C-C motif) ligand 7 (CCL7)

Cat. No. CCL7-46M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Monocyte Chemotactic Protein-3 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.
Species	Mouse
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-Ala-Gly-Pro.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 18 MΩ-cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous solutions.
Specific 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.
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.
GENE INFORMATION	
Gene Name	CCL7 chemokine (C-C motif) ligand 7 [Homo sapiens]
Synonyms	CCL7; chemokine (C-C motif) ligand 7; FIC; MARC; MCP-3; MCP3; MGC138463; MGC138465; NC28; SCYA6; SCYA7; RANTES/sis homolog; OTTMUSP00000000787; Monocyte chemoattractant protein 3; Monocyte chemotactic protein 3; Small-inducible cytokine A7; Small inducible cytokine A7; small inducible cytokine A7 (monocyte chemotactic protein 3); Monocyte Chemotactic Protein-3; mcp3; Scya7
Gene ID	6354
mRNA Refseq	NM_006273

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Protein Refseq	NP_001709
MIM	158106
UniProt ID	Q03366
Chromosome Location	17q11.2-q12
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction
Function	Chemokine activity PubMed 10770925;Heparin binding
PDB rendering based on 1bo0	