



Monocyte Chemotactic Protein-3 (CCL7), human recombinant (rHuMCP-3)

Catalog No: 94857
Lot No: XXXXX
Source: *E. coli*
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

Background

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).

Description

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. MCP-3 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (1 mg/ml) sterile solution containing no additives.

Solubility

It is recommended to reconstitute the lyophilized Monocyte Chemotactic Protein-3 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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.

Purity

Greater than 98.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

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.

Activity

The specific activity as determined by the ability of MCP-3 to chemoattract human peripheral blood at 8 - 80 ng/ml corresponding to a specific activity of 12,500 - 125,000 IU/mg.

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