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MCP 3 Rat

Monocyte Chemotactic Protein-3 Rat Recombinant (CCL7)
CHK0107

Product Overview

Name	MCP 3 Rat

Description

Monocyte Chemotactic Protein-3 Rat Recombinant (CCL7)

Accession (Primary)	Q9QXY8

Synonyms

C-C motif chemokine 7, Monocyte chemoattractant protein 3, Monocyte chemotactic protein 3, MCP-3, Small-inducible cytokine A7, Ccl7, Mcp3, Scya7.

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).

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

MCP-3 protein was lyophilized from a 0.2 μm filtered concentrated solution in 20mM PB, 300mM NaCl, pH 7.4.

Stability

Lyophilized MCP-3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCP3 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 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

QPDGTNSSTC CYVKKQKIPK RNLKSYRKIT SSRCPWEAVI FKTKKGMEVC AEAHQKWVEE AIAYLDMKTS TPKP.

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Biological Activity

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

Solubility

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

Precautions

MCP 3 Rat is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9QXY8)