

MCP \square 3/MARC/CCL7, Mouse

Cat. No.: Z03282-1

Size: 1.0 mg

Synonyms: Small inducible cytokine A7, CCL7, Monocyte chemotactic protein 3, MCP-3, Monocyte chemoattractant protein 3, MARC

Description:

Chemokine (C-C motif) ligand 7 (CCL7) is a small cytokine that was previously called monocyte-specific chemokine 3 (MCP-3). Due to CCL7 possessing two adjacent N-terminal cysteine residues in its mature form, it is classified within 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, within a large cluster containing many other CC chemokines and is most closely related to CCL2. CCL7 can signal through the CCR1, CCR2 and CCR3 receptors.

Recombinant Mouse MCP \square 3/MARC/CCL7 produced in *CHO* cells is a polypeptide chain containing 74 amino acids. A fully biologically active molecule, rmMCP 3/CCL7 has a molecular mass of 8-12 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 QPDGPNASTC CYVKKQKIPK RNLKSYRRIT SSRCPWEAVI
00041 FKTKKGMVEV AEAHQKWVEE AIAYLDMKTP TPKP

Source: *CHO*

Species: Mouse

Biological Activity: The EC₅₀ value of mouse MCP 3 MARC/CCL7 on Ca²⁺ mobilization assay in CHO-K1/ Gα15/mCCR2 cells (human Gα15 and mouse CCR2 stably expressed in CHO-K1 cells) is less than 1 μg/ml.

Molecular Weight: 8 12 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 μg/ml.

Purity: > 98% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Lyophilized recombinant Mouse MCP \square 3/MARC/CCL7 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse MCP \square 3/MARC/CCL7 should be stable up to 1 week at 4°C or up to 3 months at -20°C.