

Overview

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 human MCP-3/CCL7 produced in CHO cells is a polypeptide chain containing 76 amino acids. A fully biologically active molecule, rhMCP-3/CCL7 has a molecular mass of 10-18 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	Q7Z7Q8
Species	Human
Source	CHO
Biological Activity	The EC ₅₀ value of human MCP-3/CCL7 on Ca ²⁺ mobilization assay in CHO-K1/G±15/hCCR1 cells (human G±15 and human CCR1 stably expressed in CHO-K1 cells) is less than 1.5 µg/ml.
Sequence	QPVGINTSTT CCYRFINKKI PKQRLESYRR TTSSHCPREA VIFKTKLDKE ICADPTQKWW QDFMKHLDDK TQTPKL

Properties

Measured Molecular Weight	10-18 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human MCP-3/CCL7 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human MCP-3/CCL7 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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