

Recombinant Human Chemokine (C-C Motif) Ligand 7, His-tagged

Cat. No. CCL7-199H Lot. No. (See product label)

SPECIFICATION

Product Overview

A DNA sequence encoding the mature form of human CCL7 (NP_006264.2) (Gln 24-Leu 99) was expressed, with a polyhistide tag at the N-terminus

Species

Human

Source

Human

ProteinLength

24-99 a.a.

Description

C-C motif chemokine 7, also known as Monocyte chemoattractant protein 3, Monocyte chemotactic protein 3, MCP-3, Small-inducible cytokine A7, CCL7 and MCP3, is a secreted protein which belongs to the intercrine beta (chemokine CC) family. Chemokines and chemokine receptors are pivotal regulators of cellular communication and trafficking. In addition to the approximately 20 chemokine receptors that have been cloned and described, various orphan receptors with a chemokine receptor-like structure are known. CCL7 / MCP3 is a chemotactic factor that attracts monocytes and eosinophils, but not neutrophils. It augments monocyte anti-tumor activity. CCL7 / MCP3 also induces the release of gelatinase B. This protein can bind heparin. It also binds to CCR1, CCR2 and CCR3. Monocyte chemotactic protein 3 (MCP-3/CCL7), a CC chemokine able to attract and activate a large panel of leukocytes including natural killer cells and T lymphocytes, could be beneficial in antitumor therapy. CCL7 and CXCL10 play a critical role in mediating oxidative stress-induced neutrophilic airway inflammation.

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Form	Lyophilized from sterile PBS , pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
Purity	> 95 % as determined by SDS-PAGE
Endotoxin	μ1.0 EU per μg protein as determined by the LAL method
Stability	Samples are stable for up to twelve months from date of receipt at -70 μ
Predicted N terminal	Met
Molecular Mass	The recombinant human CCL7 consisting of 87 amino acids and has a calculated molecular mass of 10.5 kDa. It migrates as an approximately 14 kDa band in SDS-PAGE under reducing conditions.
Storage	Store it under sterile conditions at -70μ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	CCL7 chemokine (C-C motif) ligand 7 [Homo sapiens]
Official Symbol	CCL7
Synonyms	CCL7; chemokine (C-C motif) ligand 7; FIC; MARC; MCP3; NC28; MCP-3; SCYA6; SCYA7; MGC138463; MGC138465; monocyte chemotactic protein 3; monocyte chemoattractant protein 3; small inducible cytokine A7
Gene ID	6354

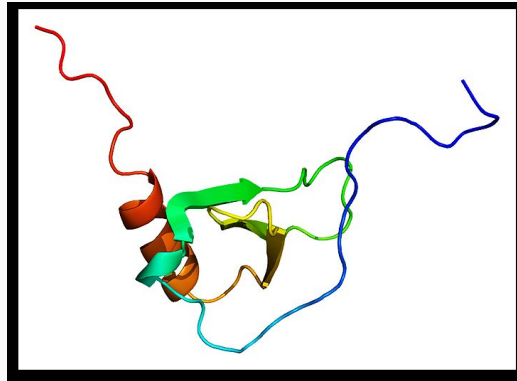
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mRNA Refseq	NM_006273
Protein Refseq	NP_006264
MIM	158106
UniProt ID	P80098
Chromosome Location	17q11.2-q12
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction
Function	chemokine activity; heparin binding

PDBrendering based on 1bo0.



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