

Human MCP-3 / CCL7 Protein (His Tag)

Catalog Number: 11926-H08E



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

FIC, MARC, MCP-3, MCP3, MGC138463, MGC138465, NC28, SCYA6, SCYA7

Protein Construction:

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

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

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 13 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50mM Tris, 30% glycerol, pH 7.5

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.

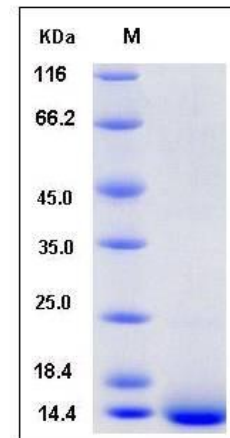
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein 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.

References

1. Michalec, L. et al., 2002, J Immunol. 168 (2):846-52.
2. Biber, K. et al., 2003, J Leukoc Biol. 74 (2):243-51.
3. Wetzel, K. et al., 2007, Int J Cancer. 120 (6):1364-71.
4. Hintzen, C. et al., 2008, J Immunol. 181 (10):7341-9.

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