Human MCP-3 / CCL7 Protein (His Tag)

Catalog Number: 11926-H07E

General Information

Gene Name Synonym:
FIC; MARC; MCP-3; MCP3; 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 a polyhistidine tag at the N-terminus.

Source:
Human

Expression Host:
E. coli

QC Testing

Purity: > 95 % 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 14 kDa band in SDS-PAGE under reducing conditions.

Formulation:
Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 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.

Protein Description

Chemokines are a family of small chemotactic cytokines, or proteins secreted by cells. Chemokines share the same structure similarities such as small size, and the presence of four cysteine residues in conserved locations in order to form their 3-dimensional shape. Some of the chemokines are considered pro-inflammatory which can be induced to recruit cells of the immune system to a site of infection during an immune response, while others are considered homeostatic and are implied in controlling the migration of cells during normal processes of tissue maintenance and development. There are four members of the chemokine family: C-C kemokines, C kemokines, CXC kemokines and CX3C kemokines. The C-C kemokines have two cysteines nearby the amino terminus. There have been at least 27 distinct members of this subgroup reported for mammals, called C-C chemokine ligands-1 to 28. Chemokine ligand 7(CCL7), also known as MCP-3, is a isform of the C-C chemokine subfamily of the chemokine family which is produced by certain tumor cells and by macrophages. It also own two adjacent N-terminal cysteine residues. Chemokine ligand 7(CCL7) specifically attracts monocytes, and regulates macrophage function.

References