

Mouse CCL20 / MIP-3 alpha Protein (His Tag)

Catalog Number: 50048-M08B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

CKb4, LARC, MIP-3A, MIP-3[a], MIP3A, ST38, Scya20, exodus-1

Protein Construction:

A DNA sequence encoding the mouse CCL20 (O89093-1) (Met 1-Met 97) was expressed, with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

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

Predicted N terminal: Ala 28

Molecular Mass:

The secreted recombinant mouse CCL20 consists of 80 amino acids and has a calculated molecular mass of 9.3 kDa. It migrates as an approximately 14 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

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.

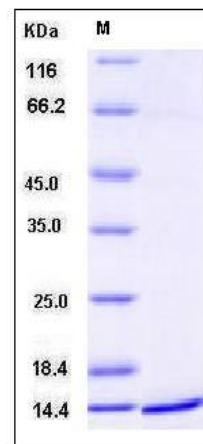
Usage Guide

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

Macrophage Inflammatory Protein-3 (MIP3A) or Chemokine (C-C motif) ligand 20 (CCL20) or liver activation regulated chemokine (LARC) or is a small cytokine belonging to the CC chemokine family that attracts immature dendritic cells and memory T lymphocytes, both expressing CCR6. Depending on the cell type, this chemokine was found to be inducible by cytokines (IL-1beta) and by bacterial, viral, or plant products. MIP3A / CCL20 is Expressed predominantly in the liver, lymph nodes, appendix, peripheral blood lymphocytes, and fetal lung. Low levels of MIP3A / CCL20 has been seen in thymus, prostate, testis, small intestine and colon. As a chemotactic factor, MIP3A / CCL20 attracts lymphocytes and, slightly, neutrophils, but not monocytes. This chemokine may inhibit proliferation of myeloid progenitors in colony formation assays and it may be involved in formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells. Its C-terminal processed forms have been shown to be equally chemotactically active for leukocytes. Deregulation of miRNAs and chemokine CCL20 was shown to play a role in colorectal cancer (CRC) pathogenesis and the regulation of CCL20 expression by miR-21 might be a regulatory mechanism involved in progression of colorectal cancer (CRC).

References

1. Vicinus B. et al., 2012, Cancer Lett. 316 (1): 105-12.
2. Ding X. et al., 2012, J Gastrointest Surg. 16(4): 828-36.
3. Ivson SM. et al., 2010, Am J Physiol Gastrointest Liver Physiol. 299 (3): 733-41.