

Recombinant Rat CCL20/MIP-3 α Protein(Trx Tag)

Catalog Number: PDER100136

Note: Centrifuge before opening to ensure complete recovery of vial contents.

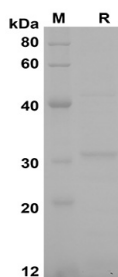
Description

Species	Rat
Source	E.coli-derived Rat CCL20/MIP-3 α protein Ser27-Met96, with an N-terminal Trx
Calculated MW	27.6 kDa
Observed MW	31 kDa
Accession	P97884
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Rat CCL20/MIP-3 α proteins, 2 μ g/lane of Recombinant Rat CCL20/MIP-3 α proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 31 KD

Background

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Chemokine (C-C motif) ligand 20 (CCL20/MIP-3 α) or liver activation regulated chemokine (LARC) or Macrophage Inflammatory Protein-3 (MIP3A) 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-1 β) and by bacterial, viral, or plant products (including LPS, dsRNA, and PM A). MIP3A / CCL20/MIP-3 α is Expressed predominantly in the liver, lymph nodes, appendix, peripheral blood lymphocytes, and fetal lung. Low levels of MIP3A / CCL20/MIP-3 α has been seen in thymus, prostate, testis, small intestine and colon. As a chemotactic factor, MIP3A / CCL20/MIP-3 α 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. Chemokine CCL20/MIP-3 α was shown to play a role in colorectal cancer (CRC) pathogenesis.

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