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# Recombinant Rat CCL20/MIP-3 alpha protein (rFc Tag)

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Catalog Number: Eg3237

## Basic Information

**Species:**
Rat

**Purity:**
>90 %, SDS-PAGE

**Tag:**
rFc Tag

## Technical Specifications

**Purity:**
>90 %, SDS-PAGE

**Endotoxin Level:**
<0.1 EU/ μ g protein, LAL method

**Source:**
HEK293-derived Rat CCL20 protein Ser27-Met96 (Accession# P97884) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**
29538

**Accession:**
P97884

**Predicted Molecular Mass:**
34.2 kDa

**SDS-PAGE:**
35-40 kDa, reducing (R) conditions

**Formulation:**
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

**Shipping:**
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CCL20, also known as MIP-3 alpha, is a chemokine expressed mainly in the lymphatic tissue, lung and liver produced by cells related with inflammation and autoimmune response such as endothelial cells, neutrophils, natural killer (NK), Th17 cells and B cells among others. CCL20 contributes to inflammatory cell recruitment. CCL20 selectively signals through its receptor CCR6. The ligand-receptor pair CCL20/CCR6 is responsible for the chemoattraction of immature dendritic cells, effector/memory T cells and B cells, and also serves a role in the skin and mucosal surfaces under homeostatic and inflammatory conditions, as well as in pathological processes, such as those associated with cancer and rheumatoid arthritis.

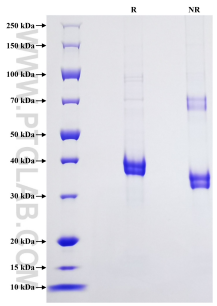
## References


1. Schutyser, Evemie et al. Cytokine & growth factor reviews vol. 14,5 (2003): 409-26.
2. Hromas, R et al. Blood vol. 89,9 (1997): 3315-22.
3. Shimizu, Y et al. Hepatology (Baltimore, Md.) vol. 34,2 (2001): 311-9.
4. Lee, Adrian Y S et al. Frontiers in immunology vol. 4 (2013): 194.


## Synonyms

Beta-chemokine exodus-1, CC chemokine LARC, CC chemokine ST38, C-C motif chemokine 20, CCL 20

## Selected Validation Data




Purity of Recombinant Rat CCL20 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.