

Rat CCL5 / RANTES protein (His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 80038-R08Y

General Information

Gene Name Synonym:

CCL5

Protein Construction:

A DNA sequence encoding the rat CCL5 (NP_038681.2) (Ser25-Ser92) was expressed with a polyhistidine tag at the C-terminus.

Source: Rat

Expression Host: Yeast

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: Ser 25

Molecular Mass:

The recombinant rat CCL5 consists of 78 amino acids and predicts a molecular mass of 9.2 kDa.

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:

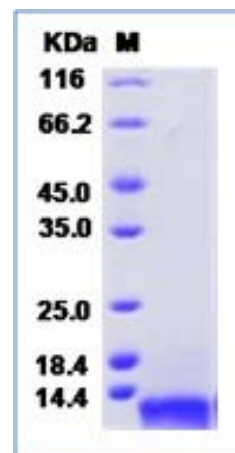
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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 5(CCL5) is chemotactic for T cells, basophils and eosinophils. Chemokine ligand 5(CCL5) has been considered a HIV-suppressor secreted by CD8+ T cells and other immune cells. Chemokine ligand 5(CCL5) is a key to activating recruit leukocytes into inflammatory sites and in the presence of particular cytokines released by T cells, it can change the NK cells into CHAK cells.

References

- 1.Laing KJ, *et al.* (2004) Chemokines. Developmental and comparative immunology. 28(5): 443-60.
- 2.Cocchi F, *et al.* (1995) Identification of RANTES, MIP-1a, and MIP-1b as the major HIV-suppressive factor produced by CD8+ T cells. Science. 270 (5243): 1811-5.
- 3.Vangelista L, *et al.* (2010) Engineering of Lactobacillus jensenii to secrete RANTES and a CCR5 antagonist analogue as live HIV-1 blockers. Antimicrob. Agents Chemother. 54 (7): 2994-3001.

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