

Human CCL21 / 6Ckine Protein

Catalog Number: 10477-HNAB



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

RP11-195F19.22-001, 6Ckine, CKb9, ECL, MGC34555, SCYA21, SLC, TCA4

Protein Construction:

A DNA sequence encoding the human CCL21 (O00585) (Met 1-Pro 134) was expressed and purified.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 98 % as determined by SDS-PAGE

Bio-Activity

Measured by its binding ability in a functional ELISA . Immobilized human CCL21 at 2 µg/ml (100 µl/well) can bind human IGFBP7 with a linear ranger of 0.16-4 µg/ml.

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: Ser 24

Molecular Mass:

The secreted recombinant human CCL21 consists of 111 amino acids and predicts a molecular mass of 12.3 kDa. It migrates as an approximately 18 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 40mM Tris, 0.3 M NaCl, pH 7.4

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.

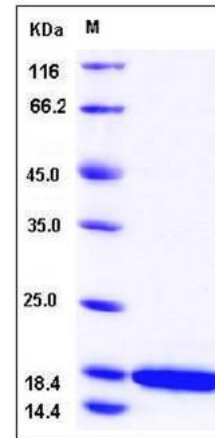
Usage Guide

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

C-C motif chemokine 21, also known as 6Ckine, Beta-chemokine exodus-2. Secondary lymphoid-tissue chemokine, Small-inducible cytokine A21, CCL21 and SCYA21, is a secreted protein which belongs to the intercrine beta (chemokine CC) family. CCL21 / SCYA21 is highly expressed in high endothelial venules of lymph nodes, spleen and appendix. Intermediate levels of CCL21 / SCYA21 is found in small intestine, thyroid gland and trachea. Low level expression of CCL21 / SCYA21 in thymus, bone marrow, liver, and pancreas. It is also found in tonsil, fetal heart and fetal spleen. CCL21 / SCYA21 inhibits hemopoiesis and stimulates chemotaxis. CCL21 / SCYA21 shows preferential activity towards naive T-cells. It may play a role in mediating homing of lymphocytes to secondary lymphoid organs. CCL21 / SCYA21 has shown biological activities that include T cell, natural killer (NK) cell, and dendritic cell (DC) chemoattraction. Intratumoral administration of CCL21 / SCYA21 has potential as a neoadjuvant immunotherapy for breast cancer.

References

1. Christopherson KW. et al., 2001, Blood. 98 (13): 3562-8.
2. Clark HF. et al., 2003, Genome Res. 13: 2265-2270.
3. Ashour AE. et al., 2007, Cancer Biol Ther. 6 (8): 1206-10.
4. Mumtaz M. et al., 2009, Oncol Rep. 21 (1): 153-8.

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