

Mouse I-309 / CCL1 / TCA-3 Protein (Fc Tag)

Catalog Number: 50178-M01H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

RP23-446K18.2, BF534335, I-309, Scya1, Tca-3

Protein Construction:

A DNA sequence encoding the secreted form of mouse CCL1 isoform 1 (P10146-1) (Lys 24-Cys 92) was fused with the Fc region of human IgG1 at the N-terminus.

Source: Mouse

Expression Host: Human Cells

QC Testing

Purity: > 92 % 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: Glu

Molecular Mass:

The recombinant mouse CCL1/Fc is a disulfide-linked homodimer. The reduced monomer comprises 330 amino acids and has a calculated molecular mass of 36.2 kDa. As a result of glycosylation, the apparent molecular mass of the monomer is approximately 44 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, 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.

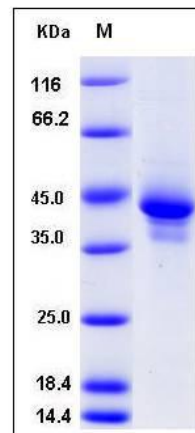
Usage Guide

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

Chemokines are a family of structurally related leukocyte chemoattractant cytokines that play a central role during immunoregulatory and inflammation processes. All chemokines contain four conserved cysteines linked by disulfide bonds, and two major subfamilies, namely CXC and CC, are defined on the basis of the first two cysteines which are separated by one amino acid or are adjacent. Human CCL1, also well known as I-309, is a small glycoprotein (73 amino acid residue as mature form) secreted by activated T lymphocytes. Human I-309 is assumed to be homologous to the mouse TCA-3 despite of the only approximately 42% amino acid sequence identity. CCL1 interacts with the G protein-linked transmembrane chemokine receptors CCR8, and induces biochemical events that may result in the control of chemotaxis, proliferation, apoptosis and adhesion. It has been demonstrated that CCL1 displays chemotactic activity for monocytes and other cell types such as NK cells and dendritic cells, but not for neutrophils. Furthermore, as the only known physiological ligand for CCR8, CCL1 was identified as a potent inhibitor of HIV-1 envelope-mediated cell-cell fusion and virus infection.

References

1. Miller MD. et al., 1992, Proc Natl Acad Sci. 89: 2950-2954.
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3. Bernardini G. et al., 2000, Blood. 96: 4039-4045.
4. Horuk R. et al., 1998, J Biol Chem. 273: 386-391.
5. Spinetti G. et al., 2003, J Leuko Biol. 73: 201-207.

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Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>