

Human CCL22 / MDC Protein (His Tag)

Catalog Number: 10163-H07E



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

A-152E5.1; ABCD-1; DC/B-CK; MDC; SCYA22; STCP-1; ABCD-1; DCBCK; MDC; Scya22

Protein Construction:

A DNA sequence encoding the secreted form of human CCL22 (O00626) (Gly 25-Gln 93) was expressed, with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % 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: Met

Molecular Mass:

The recombinant human CCL22 consisting of 84 amino acids and has a calculated molecular mass of 9.7 KDa. It migrates as an 10 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 30% Acetonitrile, 0.1% TFA

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:

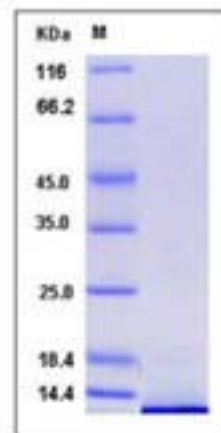
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Chemokine (C-C motif) ligand 22(ABCD-1 / CCL22) is a kind of CC chemokine which is a family of secreted proteins involved in immunoregulatory and inflammatory processes. The cytokine displays chemotactic activity for monocytes, dendritic cells, natural killer cells and for chronically activated T lymphocytes. It also displays a mild activity for primary activated T lymphocytes and has no chemoattractant activity for neutrophils, eosinophils and resting T lymphocytes. This ABCD-1 / CCL22 chemokine binds to chemokine receptor CCR4. This chemokine may play a role in the trafficking of activated / effector T lymphocytes to inflammatory sites and other aspects of activated T-lymphocyte physiology. ABCD-1 / CCL22 is highly expressed in macrophage and in monocyte-derived dendritic cells, and thymus, and in Langerhans' cell histiocytosis and atopic dermatitis but not in dermatopathic lymphadenopathy. This chemokine is also found in lymph node, appendix, activated monocytes, resting and activated macrophages. This protein is lower expressed in lung and spleen and very weakly expressed in small intestine.

References

1. Vulcano M, *et al.* (2001) Dendritic cells as a major source of macrophage-derived chemokine/CCL22 in vitro and in vivo. *Eur J Immunol.* 31(3): 812-22.
2. Kwon DJ, *et al.* (2011) Casuarinin suppresses TARC/CCL17 and MDC/CCL22 production via blockade of NF- κ B and STAT1 activation in HaCaT cells. *Biochem Biophys Res Commun.* 417(4):1254-9.
3. Hirota T, *et al.* (2011) Variants of C-C motif chemokine 22 (CCL22) are associated with susceptibility to atopic dermatitis: case-control studies. *PLoS One.* 6(11):e26987.

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