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MDC Human, His

Macrophage-Derived Chemokine Human Recombinant (CCL22), His Tag
CHK0114

Product Overview

Name	MDC Human, His

Description

Macrophage-Derived Chemokine Human Recombinant (CCL22), His Tag

Accession (Primary)	O00626

Synonyms

C-C motif chemokine 22, Small-inducible cytokine A22, Macrophage-derived chemokine, MDC(1-69), Stimulated T-cell chemotactic protein 1, CC chemokine STCP-1, CCL22, MDC, SCYA22, ABCD-1, DC/B-CK, MGC34554, A-152E5.1.

Introduction

MDC (CCL22) is a small cytokine that belongs to the CC chemokine family. CCL22 is one of several Cys-Cys (CC) cytokine genes clustered on the q arm of chromosome 16. MDC shows chemotactic activity for natural killer cells, chronically activated T lymphocytes, monocytes and dendritic cells. On the other hand, MDC shows a mild activity for primary activated T lymphocytes and has no chemoattractant activity for neutrophils, eosinophils and resting T lymphocytes. MDC may also have a role in the trafficking of activated T lymphocytes to inflammatory sites and other aspects of activated T lymphocyte physiology. MDC interacts with cell surface chemokine receptors CCR4. CCL22 is vastly expressed in macrophage and in monocyte-derived dendritic cells, and thymus. CCL22 is also found in the lymph node, appendix, activated monocytes, resting and activated macrophages. Lower expression of CCL22 can be seen in the lung and the spleen and very weak expression in the small intestine. In the lymph node CCL22 is expressed in a mature subset of Langerhans' cells (CD1a+ and CD83+). Furthermore, CCL22 is expressed in atopic dermatitis, allergic contact dermatitis skin, and psoriasis, in both the epidermis and dermis. In addition, MDC has a role in hindering progression of lung cancer. Moreover, significantly higher CCL22 expression is linked to gastric cancer.

Source

Escherichia Coli.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The MDC protein contains phosphate-buffered Saline (PBS) pH7.4 and 10% glycerol.

Stability

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95% as determined by Analysis by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH M GPYGANMED SVCCRDYVRY RLPLRVVKHF YWTSDSCPRP GVVLLTFRDK EICADPRVPW VKMILNKLSQ.

Precautions

MDC Human, His is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O00626)