
Product Data Sheet

Product Name: MDC Rat
 Cat. No.: GP21166
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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; CC chemokine ABCD-1; Activated B and dendritic cell-derived; DCBCK.		
Amino Acid Sequence	GPYGANVEDS ICCQDYIRHP LPPRFVKEFY WTSKSCRKPG VVLITIKNRD ICADPRMLWV KKILHKLA.		
Solubility	It is recommended to reconstitute the lyophilized MDC in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a 0.2µm filtered concentrated solution in 16 ⁺ PBS, pH7.4.		

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

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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.

Biological Activity

Determined by its ability to chemoattract human activated lymphocytes using a concentration range of 10.0-100.0 ng/ml.

Stability

Lyophilized MDC although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution MDC should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

CCL22 Rat Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 68 amino acids and having a molecular mass of 7.9kDa. The Rat CCL22 is purified by proprietary chromatographic techniques.

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