
Product Data Sheet

Product Name: MDC Mouse
 Cat. No.: GP21165
 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 LPSRLVKEFF WTSKSCRKPG VVLITVKNRD ICADPRQVWV KLLHKLS.		
Solubility	It is recommended to reconstitute the lyophilized CCL22 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	CCL22 filtered (0.2μm) and lyophilized from a concentrated solution containing 20mM phosphate buffer & 150mM NaCl pH-7.4.		

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

Caution: Product has not been fully validated for medical applications. For research use only.

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very weak expression in the small intestine. In the lymph

Biological Activity

Determined by its ability to chemoattract human activated lymphocytes using a concentration range of 10-100ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

Stability

Lyophilized CCL22 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CCL22 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

CCL22 Mouse Recombinant produced in E.Coli is a non-glycosylated, Polypeptide chain containing 68 amino acids and having a molecular mass of 7.8kDa. The Mouse CCL22 is purified by proprietary chromatographic techniques.

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