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MDC Mouse

Macrophage-Derived Chemokine Mouse Recombinant (CCL22)
CHK0115

Product Overview

Name	MDC Mouse
Description	
Macrophage-Derived Chemokine Mouse Recombinant (CCL22)	
Accession (Primary)	O88430
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.	
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	
Source	
Escherichia Coli.	
Physical Appearance	
Filtered White lyophilized (freeze-dried) powder.	
Formulation	
CCL22 filtered (0.2 µm) and lyophilized from a concentrated solution containing 20mM phosphate buffer & 150mM NaCl pH-7.4.	
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.

Purity

Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

GPYGANVEDS ICCQDYIRHP LPSRLVKEFF WTSKSCRKPG VVLITVKNRD ICADPRQVWV KKLLHKLS.

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.

Solubility

It is recommended to reconstitute the lyophilized CCL22 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

MDC Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O88430)