

## Overview

<b>Synonyms</b>	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
<b>Description</b>	<p><b>Macrophage-Derived/CCL22 Chemokine (MDC)</b> , also known as stimulated T cell chemotactic protein (STCP1), is a CC chemokine initially isolated from clones of monocytederived macrophages. CCL22 is one of several Cys-Cys (CC) cytokine genes clustered on the q arm of chromosome 16. CCL22 shows chemotactic activity for natural killer cells, chronically activated T lymphocytes, monocytes and dendritic cells. CCL22 has mild chemotactic activity for primary activated T lymphocytes and no chemoattractant activity for neutrophils, eosinophils or resting T lymphocytes. CCL22 may also be involved in certain aspects of activated T lymphocyte physiology, such astrafficking activated T lymphocytes to inflammatory sites. CCL22 interacts with the cell surface chemokine receptor CCR4.</p> <p>Recombinant <b>Human MDC/CCL22 (69aa)</b> produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhMDC (69aa) has a molecular mass of 8.1 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
<b>Accession No</b>	O00626-1
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	The EC <sub>50</sub> value of human MDC/CCL22(69aa)on Ca <sup>2+</sup> mobilization assay in CHO-K1/G±15/hCCR4 cells (human G±15 and human CCR4 stably expressed in CHO-K1 cells) is less than 1ug/ml.
<b>Sequence</b>	MGFYGANMED SVCCRDYVRY RLPLRVVKHF YWTSDS CPRP GVVLLTFRDK EICADPRVPWVKMILNKLSQ

## Properties

<b>Measured Molecular Weight</b>	8.1 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>Human MDC/CCL22 (69aa)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human MDC/CCL22 (69aa) should be stable up to 1 week at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

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