

## Recombinant Human Macrophage-Derived Chemokine/CCL22

### Information

<b>Gene ID</b>	6367
<b>Accession #</b>	O00626
<b>Alternate Names</b>	STCP-1, MDC (1-69), Macrophage-derived Chemokine
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 8.1 kDa, a single, non-glycosylated polypeptide chain containing 69 amino acids.
<b>AA Sequence</b>	GPYGANMEDS VCCRDYVRYP LPLRVVKHFY WTSDSCPRPG VLLTFRDKE ICADPRVPWV KMILNKLSQ
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH7.4, 500 mM NaCl.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration range of 10-100 ng/ml.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	5µg	100µg	500µg
Recombinant Human Macrophage-Derived Chemokine/CCL22	5µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

## Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuMDC/CCL22 as determined by LAL method.

## Description

CCL22 is a protein that in humans is encoded by the CCL22 gene, which locates on the Chr. 16. The protein is highly expressed in macrophage, monocyte-derived dendritic cell and thymus, additionally, also detected in the tissues of thymus, lymph node and appendix. CCL22 can bind to CCR4, and is a chemoattractant for monocytes, monocyte-derived dendritic cells, and natural killer cells, but not for neutrophils, eosinophils, and resting T-lymphocytes. After secreted from monocyte-derived dendritic cells, the protein can be proteolytic cleaved into three forms: MDC (3-69), MDC (5-69), MDC (7-69).

## Reference

1. Nomiyama H, Imai T, Kusuda J, et al. 1998. Cytogenet Cell Genet, 81: 10-1
2. Godiska R, Chantry D, Raport CJ, et al. 1997. J Exp Med, 185: 1595-604
3. Yamashita U and Kuroda E. 2002. Crit Rev Immunol, 22: 105-14
4. Katou F, Ohtani H, Nakayama T, et al. 2001. Am J Pathol, 158: 1263-70.

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