

# Recombinant human CCL22/MDC protein

Catalog Number: ATGP0397

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

25-93aa

### UniProt No.

O00626

### NCBI Accession No.

NP\_002981

### Alternative Names

C-C motif chemokine ligand 22, CC chemokine STCP-1, MDC 1-69, Macrophage-derived chemokine, MDC, Small-inducible cytokine A22, SCYA22, Stimulated T-cell chemotactic protein 1, ABCD-1, DC/B-CK, A-152E5.1

## PRODUCT SPECIFICATION

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### Molecular Weight

10.3 kDa (90aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CCL22/MDC is a small cytokine belonging to the CC chemokine family. This protien displays chemotactic activity for natural killer cells, chronically activated T lymphocytes, monocytes and dendritic cells. It interacts with cell surface chemokine receptors CCR4. This chemokine may play a role in the trafficking of activated T lymphocytes

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to inflammatory sites and other aspects of activated T lymphocyte physiology. Recombinant human CCL22/MDC, fused to His-tag at N-terminus, was expressed as insoluble protein aggregate in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGPYGANMED SVCCRDYVRY RLPLRVVKHF YWTSDSCPRP GVVLLTFRDK  
EICADPRVPW VKMILNKLSQ

## General References

Wang G., et al. (2009). *Cancer*. 115(11):2430-7

Silvano Sozzani., et al. (2000). *Journal of Leukocyte Biology*. 68:400-404

## DATA

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### SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

