

# Recombinant human CCL3/MIP-1 alpha protein

Catalog Number: ATGP1019

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-92aa

### UniProt No.

P10147

### NCBI Accession No.

NP\_002974.1

### Alternative Names

Tonsillar lymphocyte LD78 alpha protein, Small-inducible cytokine A3, SIS-beta, SCYA3, PAT 464.1, MIP-1-alpha, Macrophage inflammatory protein 1-alpha, LD78ALPHA, G0S19-1, G0/G1 switch regulatory protein 19-1, C-C motif chemokine ligand 3

## PRODUCT SPECIFICATION

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### Molecular Weight

10 kDa (90aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 10mM Sodium Citrate buffer (pH 3.5) containing 20% glycerol

### Purity

> 90% 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

CCL3, also known as, macrophage inflammatory protein-1alpha (MIP-1alpha), is a cytokine belonging to the CC chemokine family that is involved in the acute inflammatory state in the recruitment and activation of

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polymorphonuclear leukocytes. This protein has been identified as one of the major HIV-SFs produced by CD8+ T cells, along with MIP-1beta and RANTES. It acts as an inhibitor of different strains of HIV-1, HIV-2 and SIV infection in a dose-dependent manner. Recombinant human CCL3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

## Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH M>SLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCSKPGV IFLTKRSRQV  
CADPSEEWVQ KYVSDLELSA

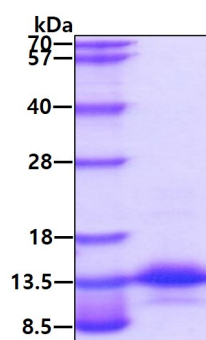
## General References

Guan E, et al. (2001) J Biol Chem. 276:12404-9

Cocchi F., et al. (1995) Science. 270:1811-5.

## DATA

### SDS-PAGE



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