

## Human recombinant CCL3 (C-C motif chemokine ligand 3) protein, AF

Catalog Number: PROTP10147-4

### Overview

Product Name	Human recombinant CCL3 (C-C motif chemokine ligand 3) protein, AF
Description	C-C Motif Chemokine Ligand 3 (CCL3) is a 7.33Da cytokine with 66 amino acid residues. CCL3 is also called macrophage inflammatory protein 1-alpha (MIP-1-alpha) and is expressed in bone marrow and liver. Upon binding to the receptor, CCR1, CCR4, or CCR5, CCL3 plays an essential role in acute inflammatory responses like recruitment and activation of polymorphonuclear leukocytes and induction of monophasic fever. In addition, CCL3 participates in resistance to type 1 virus infection, mediation of MAPK signaling pathway, cell-cell signaling, and calcium-mediated signaling.
Size	5ug,20ug,100ug
Tag	His Tag (N-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1xPBS, pH 8.5. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>95% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 8.4 kDa. The protein migrates as 8-11 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to chemoattract human PBMC using a concentration range of 5 -50 ng/mL.

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### **Amino Acid Sequence**

ADPTACCFSYTSRQIPQNFADYFETSSQCSKPGVIFLTKRSRQVCADPSEEWVQKYVSDLELSA with polyhistidine tag at the N-terminus

### **Reconstitution**

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex!

Vigorous shaking may impair the biological activity of the protein.

## Usage

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