

## Mouse recombinant CCL4 (C-C Motif Chemokine Ligand 4) protein, AF

Catalog Number: PROTP14097-2

### Overview

Product Name	Mouse recombinant CCL4 (C-C Motif Chemokine Ligand 4) protein, AF
Description	C-C Motif Chemokine Ligand 4 (CCL4) is a 7.66 kDa cytokine with 69 amino acid residues. CCL4, also named macrophage inflammatory protein-1beta (MIP-1beta), is mainly secreted from neutrophils, monocytes, B cells, T cells, fibroblasts, endothelial cells, and epithelial cells. In addition, CCL4 participates in immune responses, including recruitment of immune cells like lymphocytes, monocytes, and leukocytes, response to IL-1 and IFNgamma, and production of TNF when CCL4 binds to CCR5.
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 1X PBS, pH 7.4. 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

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 8.64 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to chemoattract human PBMCs using a concentration range of 20.0 - 200.0 ng/mL. Note: Results may vary from different PBMC donors.

### Endotoxin

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

### **Amino Acid Sequence**

APMGSDPPTSCCFSYTSRQLHRSFVMDYYETSSLCSKPAVVFLTKRGRQICANPSEPWWTEYMSDLELN 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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