

**RMCM074**

Recombinant CCL4 (C-C Motif Chemokine Ligand 4), Mouse  
, AF



5ug;20ug;100ug;500ug;

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### **Synonym/Alternative name(s):**

MIP-1b: Macrophage Inflammatory Protein-1 $\beta$ , ACT-2

### **Activity:**

Measure by its ability to chemoattract BaF3 cells transfected with human CCR5.

The ED50 for this effect is <4 ng/mL.

### **Protein Description:**

CCL4 act as an important pro-inflammatory cytokine during acute and chronic inflammatory responses. CCL4 also play a role as an attractant NK cells, dendritic cells, monocytes, and lymphocytes to sites of injury and inflammation. As CCL4 conducts signaling through G-protein-coupled receptor CCR5, which is a major co-receptor for M-tropic HIV strains. Thus, binding of CCL4 to CCR5 inhibits HIV entry and reduces the cell surface expression of CCR5. CCL4 has been identified as one of the major anti-HIV factors produced by CD8+ T cells.

**Protein Accession :** Q5QNV9

**Gene ID :** 20303

### **Expression Sequence:**

APMGSDPPTSCCFYSYTSRQLHRSFVMDYYETSSLCSKPAVVFLTKRGRQICANPSEPWWTEYMSDLELN with polyhistidine tag at the N-terminus.

**Fusion tag :** His-tag?at?the?N-terminus

**Species :** Mouse

**Reactivity :** Mouse

**Expression Host :** Escherichia coli

**Source :** E. coli

### **Purity/method:**

>98% as determined by SDS-PAGE. Ni-NTA chromatography

### **Endotoxin level:**

<0.1 EU per 1  $\mu$ g of the protein by the LAL method.

**Calculated Molecular Weight :** 8.64 kDa

### **Formulation:**

The protein was lyophilized from a solution containing 1X PBS, pH 7.4.

### **Reconstitution:**

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

**Shipping :** Blue Ice

### **Stability and 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.

**Category :** Cytokines

**Application :** Cell culture, Elisa

**Image:**



SDS- PAGE analysis of recombinant mouse CCL4