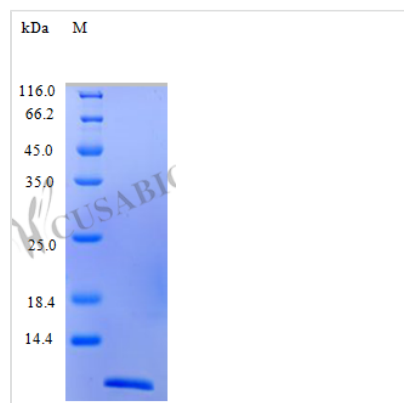




# Recombinant Human C-C motif chemokine 4 protein (CCL4) (Active)

<b>Product Code</b>	CSB-AP000861HU
<b>Uniprot No.</b>	P13236
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	0.2 μm filtered 20 mM PB, pH 7.4, 150 mM NaCl ,lyophilized
<b>Product Type</b>	Chemokine
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 5.0-20 ng/ml.
<b>Purity</b>	>96% as determined by SDS-PAGE.
<b>Sequence</b>	APMGSDPPTA CCFSYTARKL PRNFVVDYIE TSSLCSQPAV VFQTKRSKQV CADPSESQWVQ EYVYDLELN
<b>Research Area</b>	Immunology
<b>Source</b>	E.coli
<b>Target Names</b>	CCL4
<b>Expression Region</b>	24-92aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag-Free
<b>Mol. Weight</b>	7.8 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>PubMed ID</b>	2462251; 2521882; 2521353; 2247088; 2568930; 1894635; 15843566; 16625196; 15489334; 2809212; 9521068; 8525373; 10540332; 12070155; 12401480; 8134838

## Image





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**Description**

This Recombinant Human CCL4 protein is an essential research tool for investigators in the field of immunology. This C-C motif chemokine 4, also known as CCL4, LAG1, MIP1B, and SCYA4, is expressed in *E. coli*, featuring the 24-92aa expression region of the full-length mature protein. The tag-free protein is supplied as a lyophilized powder, allowing for easy reconstitution with sterile water or buffer to facilitate a wide range of experimental applications.

Quality and performance are paramount for us, and our Recombinant Human CCL4 protein exhibits a purity of >96% as determined by SDS-PAGE and HPLC analysis. In addition, endotoxin levels are maintained below 1.0 EU/μg, as assessed by the LAL method. The protein demonstrates full biological activity in a chemotaxis bioassay using human peripheral blood monocytes, with an effective concentration range of 5.0-20 ng/ml.

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**Endotoxin**

Less than 1.0 EU/μg as determined by LAL method.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.