

## Human CCL4, Tag Free, E. coli

<b>Catalog Number</b>	LDG166PHE
<b>Package</b>	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Expression System

Escherichia coli

#### Affinity Tag

Tag Free

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution containing 50 mM Tris and 150 mM NaCl, pH 8.5.

#### Purity

>98% as determined by SDS-PAGE analysis.

#### Molecular weight

The protein has a calculated MW of 7.75 kDa.  
The protein migrates as 11 kDa under reducing condition (SDS-PAGE analysis).

#### Activity

Measure by its ability to chemoattract human THP1 cells using a concentration range of 10-100 ng/mL.  
Activity analysis of recombinant Human CCL4, Tag Free, E. coli.

#### Endotoxin Level

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

#### Form

Lyophilized

### Background

#### Tainan Headquarters

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#### Innovation & Research Center

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#### CLD Center

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### Background

C-C Motif Chemokine Ligand 4 (CCL4) is a 7.66 kDa cytokine with 69 amino acid residues. CCL4, also named macrophage inflammatory protein-1 $\beta$  (MIP-1 $\beta$ ), is mainly secreted from neutrophils, monocytes, B cells, T cells, fibroblasts, endothelial cells and epithelial cells. CCL4 recruits various immune cells like natural killer cells, monocytes, and neutrophils when CCL4 binds to CCR5. In addition, CCL4 mediates lymphocyte adhesion by Rac1 /Cdc42 signaling pathway and plays critical roles in different biological functions like maintenance of cell polarity, regulation of calcium ion transport and response to viruses.

### Uniprot ID

#P13236

### Synonyms

Lymphocyte activation gene 1 protein, LAG-1, Macrophage inflammatory protein 1-beta, MIP-1-beta, Monocyte adherence-induced protein 5-alpha, Small-inducible cytokine A4-like, C-C motif chemokine 4-like

### Sequence Note

Ala24-Asn92

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration of 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

### Tainan Headquarters

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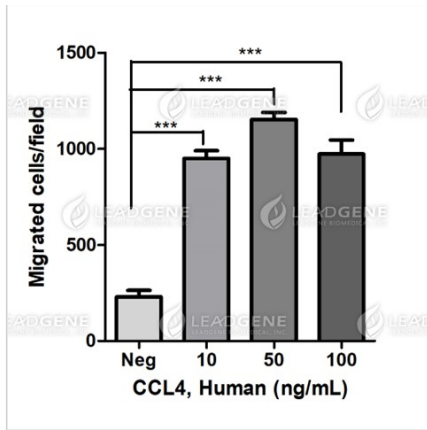
✉ [bd@leadgene.com.tw](mailto:bd@leadgene.com.tw)

### Innovation & Research Center

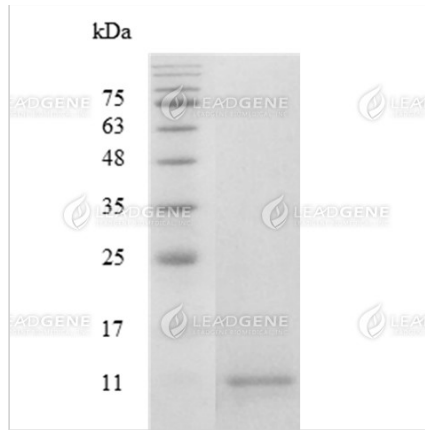
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SDS-PAGE analysis of recombinant human CCL4.

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