

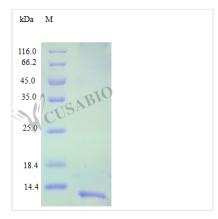




# Recombinant Human C-C motif chemokine 16 protein (CCL16) (Active)

Product Code	CSB-AP000601HU
Abbreviation	Recombinant Human CCL16 protein (Active)
Uniprot No.	O15467
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered PBS, pH 7.4
Product Type	Chemokine
Immunogen Species	Homo sapiens (Human)
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 10-100 ng/ml.
Purity	>97% as determined by SDS-PAGE.
Sequence	QPKVPEWVNT PSTCCLKYYE KVLPRRLVVG YRKALNCHLP AIIFVTKRNR EVCTNPNDDW VQEYIKDPNL PLLPTRNLST VKIITAKNGQ PQLLNSQ
Research Area	Immunology
Source	E.coli
Target Names	CCL16
Expression Region	24-120aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag-Free
Mol. Weight	11.2 kDa
Protein Length	Full Length of Mature Protein
PubMed ID	9596672; 9545580; 10213461; 9642106; 10235110; 10671294; 15489334
Image	

**Image** 



#### **CUSABIO TECHNOLOGY LLC**







### **Description**

Our Recombinant Human CCL16 (C-C motif chemokine 16) is produced in E.coli, and has an expression region of 24-120aa, covering the full length of the mature protein. This product is provided in a lyophilized powder form, with a purity of >97% as determined by SDS-PAGE and HPLC. The endotoxin level is less than 1.0 EU/ug as determined by the LAL method. The recombinant CCL16 is tag-free for ease of use in various applications.

CCL16 is a chemokine that plays an important role in the trafficking and activation of leukocytes<sup>[1]</sup>. CCL16 has been implicated in various inflammatory diseases, including rheumatoid arthritis and atherosclerosis<sup>[2,3]</sup>. It has been reported to have chemotactic activity for monocytes, lymphocytes, and eosinophils<sup>[4]</sup>. Additionally, CCL16 has been shown to have a potential role in angiogenesis and tumor progression[5].

Fully biologically active, the recombinant human CCL16 demonstrates a concentration range of 10-100 ng/ml in chemotaxis bioassays using human monocytes, compared to the standard.

#### References:

- 1. Mantovani, A. et al. The chemokine system in diverse forms of macrophage activation and polarization. Trends Immunol. 2000; 21(6): 303-307.
- 2. Hosaka, S. et al. Predominant expression of the human LIM and SH3 domain protein, hILINCK in activated monocyte lineage. FEBS Lett. 2000; 481(2): 93-98.
- 3. Van Coillie, E. et al. Human monocyte chemotactic proteins-2 and -3: structural and functional comparison with MCP-1. J. Immunol. 1999; 162(7): 4349-4359.
- 4. Hieshima, K. et al. Molecular cloning of a novel human CC chemokine liver and activation-regulated chemokine (LARC) expressed in liver. Chemotactic activity for lymphocytes and gene localization on chromosome 2. J. Biol. Chem. 1997; 272(38): 23913-23921.
- 5. Müller, G. and Lipp, M. Signal transduction by the chemokine receptor CXCR5: Structural requirements for G protein activation analyzed by chimeric CXCR1/CXCR5 molecules. J. Exp. Med. 2001; 194(2): 181-192.

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

## 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.

## **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.