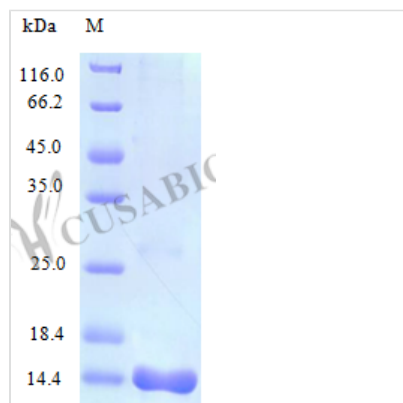




# Recombinant Human C-C motif chemokine 25 protein (CCL25)

|                            |                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Code</b>        | CSB-AP000981HU                                                                                                                                                                      |
| <b>Abbreviation</b>        | Recombinant Human CCL25 protein (Active)                                                                                                                                            |
| <b>Uniprot No.</b>         | O15444                                                                                                                                                                              |
| <b>Storage Buffer</b>      | Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in 20mM PB, pH 7.4, 100 mM NaCl.                                                                                      |
| <b>Product Type</b>        | Chemokines                                                                                                                                                                          |
| <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 monocytes is in a concentration range of 1.0-10 ng/ml. |
| <b>Purity</b>              | >97% as determined by SDS-PAGE.                                                                                                                                                     |
| <b>Sequence</b>            | M+QGVFEDCCL AYHYPIGWAV LRRAWTYRIQ EVSGSCNLPA AIFYLPKRHR KVCGNPKSRE VQRAMKLLDA RNKVFALHHT NTQTFQAGPH AVKKLSSGNS KLSSSKFSNP ISSSKRNVSL LISANSGL                                       |
| <b>Research Area</b>       | Immunology                                                                                                                                                                          |
| <b>Source</b>              | E.Coli                                                                                                                                                                              |
| <b>Target Names</b>        | CCL25                                                                                                                                                                               |
| <b>Expression Region</b>   | 24-150aa                                                                                                                                                                            |
| <b>Tag Info</b>            | Tag-Free                                                                                                                                                                            |
| <b>Mol. Weight</b>         | 14.3 kDa                                                                                                                                                                            |
| <b>Protein Length</b>      | Full Length of Mature Protein                                                                                                                                                       |
| <b>PubMed ID</b>           | 9285413; 14702039; 15057824; 15489334; 10229797; 23341447                                                                                                                           |

## Image



## Description

This recombinant Human CCL25 protein is a high-quality research tool designed



for a wide range of immunology applications. Also known as C-C motif chemokine 25, this full-length mature protein is expressed in *E. coli*, covering the 24-150aa expression region. The tag-free, lyophilized powder can be easily reconstituted with sterile water or buffer, ensuring hassle-free use.

The quality of our Recombinant Human CCL25 protein is guaranteed, with a purity of >97% as determined by SDS-PAGE and HPLC analysis. Additionally, endotoxin levels are maintained below 1.0 EU/μg, as determined by the LAL method. Our CCL25 protein demonstrates full biological activity in a chemotaxis bioassay using human monocytes, with an effective concentration range of 1.0-10 ng/ml.

CCL25 has been the subject of numerous studies investigating its role in the immune system. For instance, Zaballos *et al.* (1999)<sup>[1]</sup> discovered that CCL25 is a potent chemoattractant for lymphocytes, particularly T cells. Later, Bowman *et al.* (2006)<sup>[2]</sup> highlighted the involvement of CCL25 in the development and function of the small intestine's immune system. Most recently, research by Kim *et al.* (2017)<sup>[3]</sup> revealed a connection between CCL25 and rheumatoid arthritis, suggesting potential therapeutic applications in this disease. Taken together, these findings emphasize the importance of CCL25 in immune regulation and its potential as a target for future interventions.

#### References:

1. Zaballos A, *et al.* Identification of a novel CC chemokine, human eotaxin-2, that is specific for CCR3 and displays high eosinophil chemotactic activity. *J Immunol.* 1999;162(11): 6798-801.
2. Bowman EP, *et al.* The intestinal chemokine thymus-expressed chemokine (CCL25) attracts IgA antibody-secreting cells. *J Exp Med.* 2006;203(3): 507-13.
3. Kim HR, *et al.* Chemokine CC motif ligand 25 enhances resistance to apoptosis in CD4<sup>+</sup> T cells from patients with rheumatoid arthritis by increasing the activation of the PI3K/Akt and STAT3 pathways. *Front Immunol.* 2017;8: 820.

#### Endotoxin

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

#### 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.