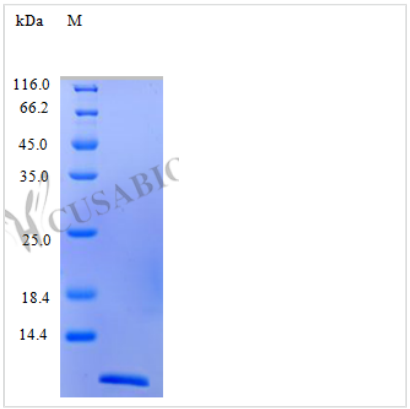
Recombinant Human C-C motif chemokine 26 protein (CCL26) (Active)

Product Code	CSB-AP000991HU
Uniprot No.	Q9Y258
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 CCR3 transfected HEK293 cells is in a concentration range of 0.5- 2.0 μg/ml.
Purity	>97% as determined by SDS-PAGE.
Sequence	TRGSDISKTC CFQYSHKPLP WTWVRSYEFT SNSCSQRAVI FTTKRGKKVC THPRKKWVQK YISLLKTPKQ L
Research Area	Immunology
Source	E.coli
Target Names	CCL26
Expression Region	24-94aa
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	8.4 kDa
Protein Length	Full Length of Mature Protein
PubMed ID	10373330; 10415065; 10488147; 12975309; 12853948; 15489334; 11425309

Image



Description

This Recombinant Human CCL26 protein is an essential research tool for investigators in the field of immunology. This C-C motif chemokine 26, also known as CCL26, is expressed in E. coli, featuring the 24-94aa 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 CCL26 protein exhibits a purity of >97% 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 CCR3 transfected HEK293 cells, with an effective concentration range of 0.5-2.0 μg/ml.

Over the years, numerous studies have explored the role of CCL26 in immune regulation. For instance, Garcia-Zepeda *et al*. (1996)[1] initially identified CCL26 as an eosinophil-selective chemoattractant, and Komiya *et al*. (2003)[2] later highlighted its role in allergic inflammation. Subsequently, Abonyo *et al*. (2010)[3] showed that CCL26 contributes to eosinophil trafficking in the airways, and Ying *et al*. (2012)[4] linked CCL26 with asthma pathogenesis. Taken together, these studies emphasize the importance of CCL26 in the immune system and its potential as a therapeutic target for immune-related diseases.

References:
1. Garcia-Zepeda EA, *et al*. Human eotaxin is a specific chemoattractant for eosinophil cells and provides a new mechanism to explain tissue eosinophilia. Nat Med. 1996;2(4): 449-56.
2. Komiya A, *et al*. CCL26/eotaxin-3 is more effective to induce the migration of eosinophils of asthmatics than CCL11/eotaxin-1 and CCL24/eotaxin-2. J Leukoc Biol. 2003;74(4): 611-7.
3. Abonyo BO, *et al*. Human eotaxin-3/CCL26 gene expression is regulated by DNA demethylation. Clin Exp Allergy. 2010;40(8): 1254-63.
4. Ying S, *et al*. Expression and cellular provenance of thymic stromal lymphopoietin and chemokines in patients with severe asthma and chronic obstructive pulmonary disease. J Immunol. 2012;181(4): 2790-8.

Endotoxin	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.