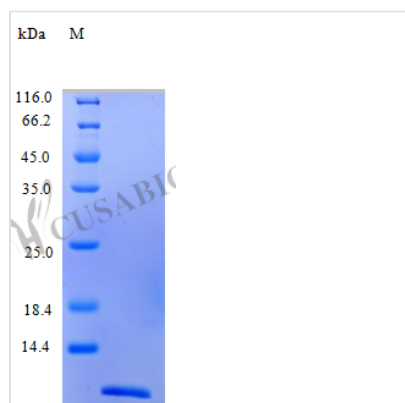




Recombinant Human C-C motif chemokine 24 protein (CCL24), partial (Active)

Product Code	CSB-AP000971HU
Abbreviation	Recombinant Human CCL24 protein, partial (Active)
Uniprot No.	O00175
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 peripheral blood eosinophils is in a concentration of 50-100 ng/ml.
Purity	>97% as determined by SDS-PAGE.
Sequence	VVIPSPCCMF FVSKRIPENR VVSYQLSSRS TCLKAGVIFT TKKGQQFCGD PKQEWVQRYM KNLDAKQKKA SPRARAVA
Research Area	Immunology
Source	E.coli
Target Names	CCL24
Expression Region	27-104aa
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	8.8 kDa
Protein Length	Partial
PubMed ID	9104803; 9365122; 14702039; 12853948; 15489334; 15340161; 10913244

Image





Description

Our Recombinant Human CCL24 protein is a high-quality product designed for use in various immunology research applications. This protein, also known as C-C motif chemokine 24, is expressed in *E. coli* and encompasses amino acids 27-104. The tag-free, lyophilized powder ensures ease of use and can be reconstituted with sterile water or buffer.

Our product meets stringent quality control standards, with a purity of >97% as determined by SDS-PAGE and HPLC analysis. Endotoxin levels are consistently kept below 1.0 EU/μg, as determined by the LAL method. The Recombinant Human CCL24 protein retains full biological activity, as demonstrated by a chemotaxis bioassay using human peripheral blood eosinophils, with activity in a concentration range of 50-100 ng/ml.

The study of CCL24 has revealed its essential role in various aspects of immunoregulation. In a landmark study, Kitaura *et al.* (1999)^[1] demonstrated that CCL24 functions as a selective chemoattractant for eosinophils, playing a crucial role in the pathogenesis of allergic disorders. Furthermore, as Yuan *et al.* (2016)^[2] explored, CCL24 is implicated in the development of atopic dermatitis, underscoring its potential as a therapeutic target. The collective findings of these studies not only emphasize the importance of CCL24 in the immune system but also highlight the opportunities for targeted interventions in immune-related diseases.

References:

1. Kitaura M, *et al.* Molecular cloning of human eotaxin, an eosinophil-selective CC chemokine, and identification of a specific eosinophil eotaxin receptor, CC chemokine receptor 3. *J Biol Chem.* 1999;274(39): 27975-80.
2. Yuan Y, *et al.* Serum eotaxin-1 is a potential biomarker for atopic dermatitis in an Asian population. *Int J Dermatol.* 2016;55(2): e86-92.

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.