

Human IL-5 Protein, premium grade

Catalog # IL5-H5214



BIOSYSTEMS
Acro

Synonym

IL-5, TRF, IL5, Interleukin-5

Source

Human IL-5 Protein, premium grade (IL5-H5214) is expressed from human 293 cells (HEK293). It contains AA Ile 20 - Ser 134 (Accession # [P05113-1](#)).

Predicted N-terminus: Ile 20

It is produced under our rigorous quality control system that incorporates a comprehensive set of tests including sterility and endotoxin tests. Product performance is carefully validated and tested for compatibility for cell culture use or any other applications in the early preclinical stage. When ready to transition into later clinical phases, we also offer a custom GMP protein service that tailors to your needs. We will work with you to customize and develop a GMP-grade product in accordance with your requests that also meets the requirements for raw and ancillary materials use in cell manufacturing of cell-based therapies.

Molecular Characterization

IL-5(Ile 20 - Ser 134)
P05113-1

This protein carries no "tag".

The protein has a calculated MW of 13.1 kDa. The protein migrates as 18 kDa \pm 3 kDa under reducing (R) condition, and 36 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per μ g by the LAL method / rFC method.

Host Cell DNA

<0.02 ng/ μ g of protein tested by qPCR.

Sterility

Negative

Mycoplasma

Negative

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

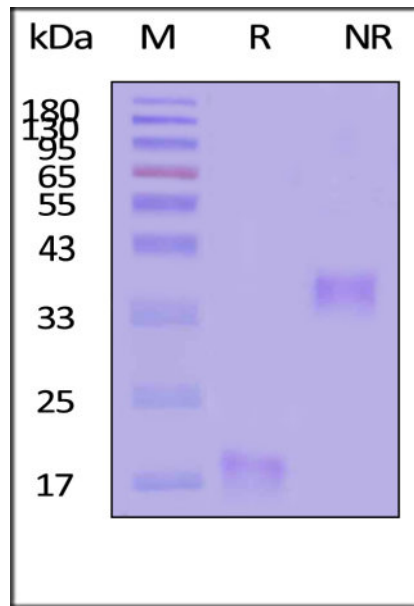
- -20°C to -70°C for 24 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)

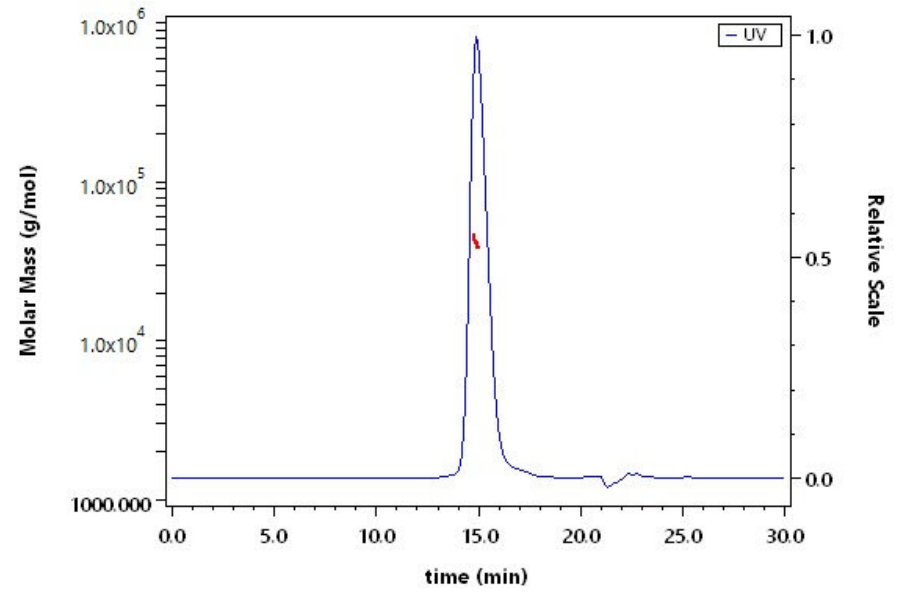
- [Quality Control Process](#)

SDS-PAGE



Human IL-5 Protein, premium grade on SDS-PAGE under reducing (R) and non-reducing (NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

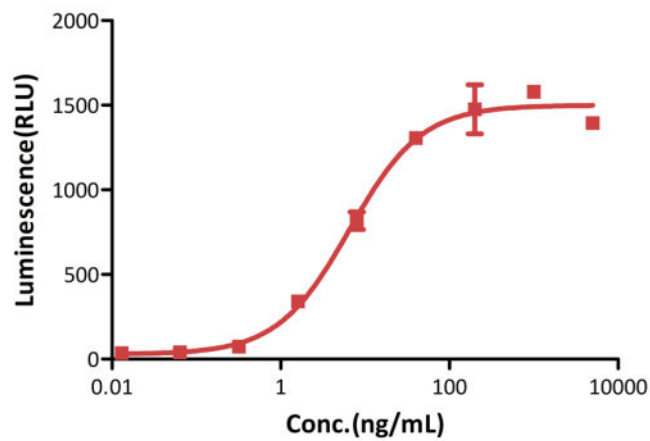
SEC-MALS



The purity of Human IL-5 Protein, premium grade (Cat. No. IL5-H5214) is more than 95% and the molecular weight of this protein is around 30-43 kDa verified by SEC-MALS.

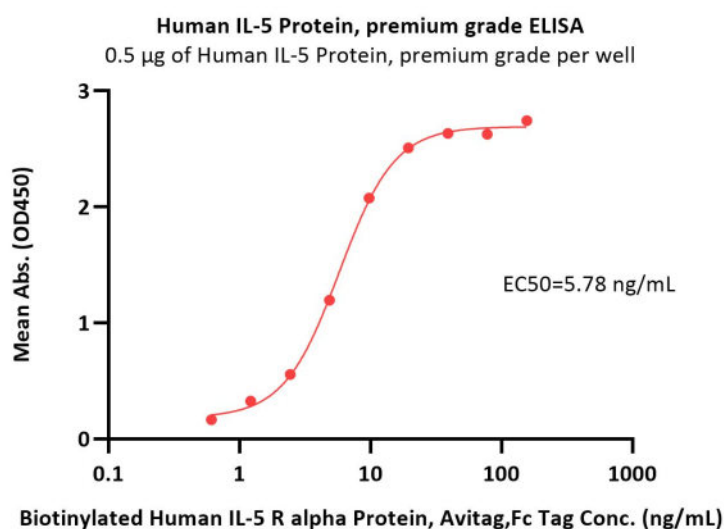
Bioactivity-CELL BASE

Human IL-5 Protein, premium grade stimulates Human IL-5 R alpha/CD131 (Luc) HEK293 Reporter Cell



Human IL-5 Protein, premium grade (Cat. No. IL5-H5214) stimulates Human IL-5 R alpha/CD131 (Luc) HEK293 Reporter Cell. The specific activity of Human IL-5 Protein, premium grade is $> 3.00 \times 10^6$ IU/mg, which is calibrated against human IL-5 WHO International Standard (NIBSC code: 90/586) (QC tested).

Bioactivity-ELISA



Immobilized Human IL-5 Protein, premium grade (Cat. No. IL5-H5214) at 5 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Biotinylated Human IL-5 R alpha Protein, Avitag,Fc Tag (Cat. No. ILA-H82F5) with a linear range of 0.6-10 ng/mL (QC tested).

Background

Interleukin 5 (IL5) is an interleukin produced by type-2 T helper cells and mast cells. IL-5 is a 115-amino acid (in human, 133 in the mouse) -long TH2 cytokine that is part of the hematopoietic family. Unlike other members of this cytokine family (namely interleukin 3 and GM-CSF), this glycoprotein in its active form is a homodimer. Interleukin-5 has long been associated with the cause of several allergic diseases including allergic rhinitis and asthma, wherein a large increase in the number of circulating, airway tissue, and induced sputum eosinophils have been observed. Given the high concordance of eosinophils and, in particular, allergic asthma pathology, it has been widely speculated that eosinophils have an important role in the pathology of this disease. Drugs that target IL-5 are mepolizumab and reslizumab.

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