

Datasheet for ABIN7274954

IL-5 Protein (AA 20-134) (His-Avi Tag)**4** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL-5 (IL5)
Protein Characteristics:	AA 20-134
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-5 protein is labelled with His-Avi Tag.

Product Details

Purpose:	Human IL-5 Protein
Sequence:	Ile20-Ser134
Characteristics:	Recombinant Human IL-5 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus. It contains Ile20-Ser134.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human IL-5 at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-5 R alpha, hFc Tag with the EC50 of 47.7ng/ml determined by ELISA. The affinity constant of 4.9nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

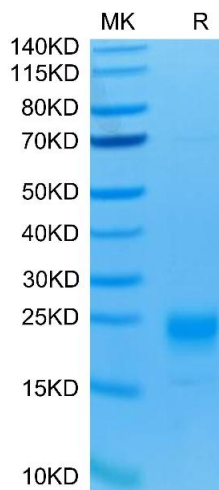
Target:	IL-5 (IL5)
Alternative Name:	IL-5 (IL5 Products)
Background:	IL-5 is an important cytokine for priming and survival of mature eosinophils and for proliferation and maturation of their progenitors. IL-5(Rα) targeting will be increasingly used in diseases where eosinophils are the key immune effector cells such as eosinophilic asthma (EA), hypereosinophilic syndrome (HES), eosinophilic esophagitis (EE), and eosinophilic granulomatosis with polyangiitis (EGPA).
Molecular Weight:	16.1 kDa. Due to glycosylation, the protein migrates to 18-25 kDa based on Tris-Bis PAGE result.
UniProt:	P05113
Pathways:	JAK-STAT Signaling , Positive Regulation of Peptide Hormone Secretion , Production of Molecular Mediator of Immune Response , Feeding Behaviour

Application Details

Restrictions:	For Research Use only
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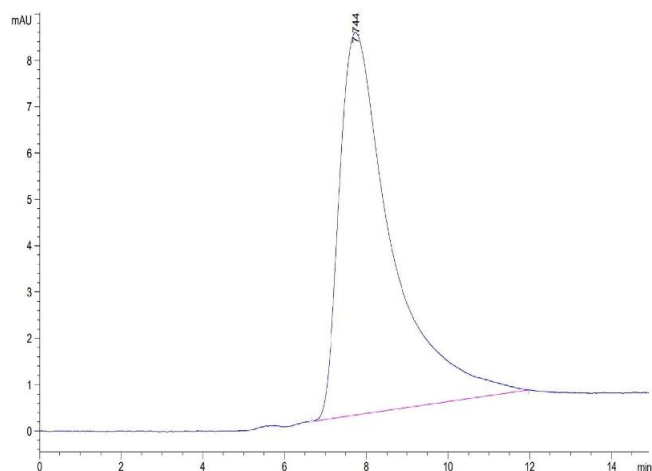
Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



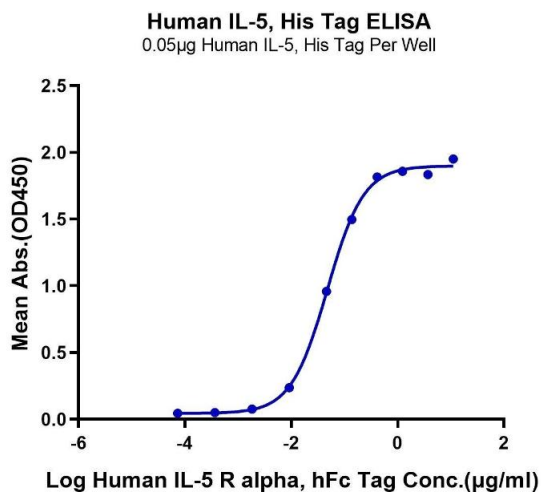
SDS-PAGE

Image 1. Human IL-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human IL-5 is greater than 95 % as determined by SEC-HPLC.



ELISA

Image 3. Immobilized Human IL-5 at 0.5 µg/mL (100 µ L/Well) on the plate. Dose response curve for Human IL-5 R alpha, hFc Tag with the EC50 of 47.7 ng/mL determined by ELISA.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274954.