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IL-5 Protein (AA 20-134) (His-Avi Tag, Biotin)





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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,Biotin.

Product Details

Purpose:	Biotinylated Human IL-5 Protein
Sequence:	lle20-Ser134
Characteristics:	Recombinant Biotinylated 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 Biotinylated Human IL-5, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-5 R alpha, hFc Tag with the EC50 of 39ng/ml determined by ELISA. The affinity constant of 7.57 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

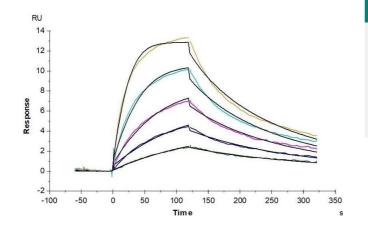
Target:	IL-5 (IL5)
Alternative Name:	IL-5 (IL5 Products)
Background:	IL-5 is an important cytokine for priming and survival of mature eosinophils and for proliferation and maturation of their progenitors. IL-5(Ra) targeting will be increasingly used in diseases where eosinophils are the key immune effector 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.
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Application Details

Restrictions:

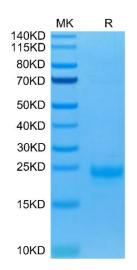
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added 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

For Research Use only



Surface Plasmon Resonance

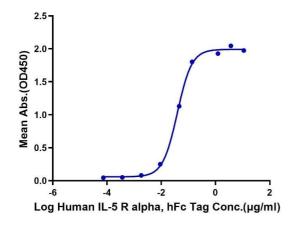
Image 1. Human IL-5 R alpha, His Tag immobilized on CM5 Chip can bind Biotinylated Human IL-5, His-Avi Tag with an affinity constant of 7.57 nM as determined in SPR assay (Biacore T200).



SDS-PAGE

Image 2. Biotinylated Human IL-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .





ELISA

Image 3. Immobilized Biotinylated Human IL-5, His Tag at 0.5 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Human IL-5 R alpha, hFc Tag with the EC50 of 39 ng/mL determined by ELISA.

Please check the product details page for more images. Overall 4 images are available for ABIN7274955.