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IL5RA Protein (AA 21-335) (His-Avi Tag)

3 Images



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Overview

Quantity:	100 μg
Target:	IL5RA
Protein Characteristics:	AA 21-335
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL5RA protein is labelled with His-Avi Tag.

Product Details

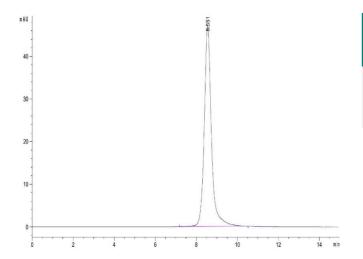
Purpose:	Human IL-5 R alpha/CD125 Protein
Sequence:	Asp21-Glu335
Characteristics:	Recombinant Human IL-5 R alpha/CD125 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains Asp21-Glu335.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per μg by the LAL method.
Biological Activity Comment:	The affinity constant of 4.9nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Expiry Date:

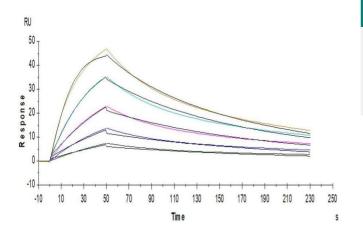
12 months

l arget Details	
Target:	IL5RA
Alternative Name:	IL-5 R alpha (IL5RA Products)
Background:	Interleukin-5 Receptor alpha (IL-5 R alpha), also known as CD125, is a 60 kDa hematopoietin receptor that plays a dominant role in eosinophil biology. This is the receptor for interleukin-5. The alpha chain binds to IL5.
Molecular Weight:	38.7 kDa. Due to glycosylation, the protein migrates to 50-68 kDa based on Tris-Bis PAGE result.
Pathways:	JAK-STAT Signaling
Application Details	
Restrictions:	For Research Use only
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.



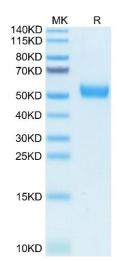
Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Human IL-5R alpha is greater than 95 % as determined by SEC-HPLC.



Surface Plasmon Resonance

Image 2. Human IL-5, His Tag immobilized on CM5 Chip can bind Human IL-5Ra, His Tag with an affinity constant of 4.9nM as determined in a SPR assay (Biacore T200).



SDS-PAGE

Image 3. Human IL-5R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .