

Datasheet for ABIN7274960

IL-5 Protein (AA 21-133) (His-Avi Tag,Biotin)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL-5 (IL5)
Protein Characteristics:	AA 21-133
Origin:	Mouse
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 Mouse IL-5 Protein
Sequence:	Met21-Gly133
Characteristics:	Recombinant Biotinylated Mouse IL-5 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus.It contains Met21-Gly133.
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 0.511 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

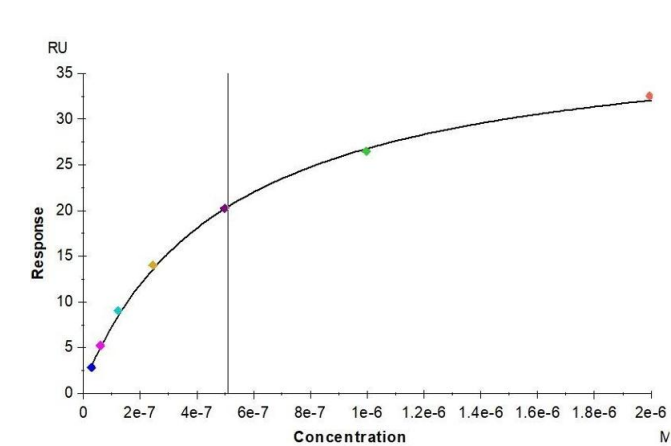
Target:	IL-5 (IL5)
Alternative Name:	IL-5 (IL5 Products)
Background:	IL-5 is an important cytokine for priming and survival of mature eosinophils and for proliferation and maturation of their progenitors. IL-5(Rα) targeting will be increasingly used in diseases where eosinophils are the key immune effector cells such as eosinophilic asthma (EA), hypereosinophilic syndrome (HES), eosinophilic esophagitis (EE), and eosinophilic granulomatosis with polyangiitis (EGPA).
Molecular Weight:	16.0 kDa. Due to glycosylation, the protein migrates to 16 kDa and 20-35 kDa based on Tris-Bis PAGE result.
UniProt:	P04401
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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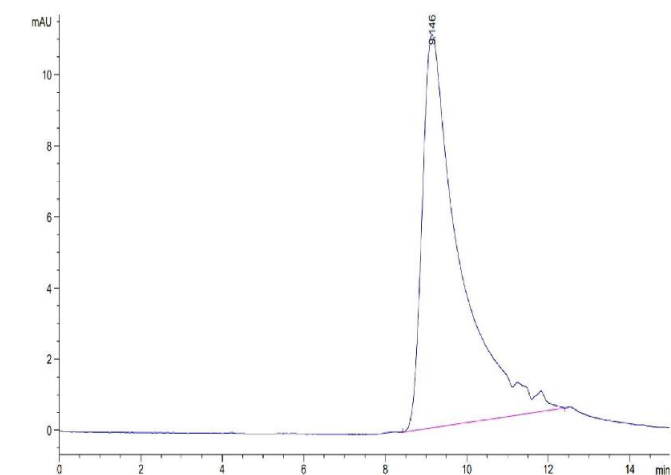
Handling

Format:	Liquid
Buffer:	Supplied as 0.22µm filtered solution in 20 mM Tris, 500 mM NaCl, 10 % Glycerol (pH 7.0).
Storage:	-80 °C
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



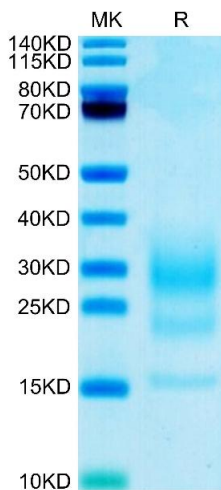
Surface Plasmon Resonance

Image 1. Mouse IL-5 R alpha, His Tag immobilized on CM5 Chip can bind Biotinylated Mouse IL-5, His-Avi Tag with an affinity constant of 0.511 μ M as determined in SPR assay (Biacore T200).



Size-exclusion chromatography-High Pressure Liquid Chromatography

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



SDS-PAGE

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