

Datasheet for ABIN7275016

IL27 Receptor alpha Protein (AA 34-516) (Fc Tag)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL27 Receptor alpha (IL27RA)
Protein Characteristics:	AA 34-516
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL27 Receptor alpha protein is labelled with Fc Tag.

Product Details

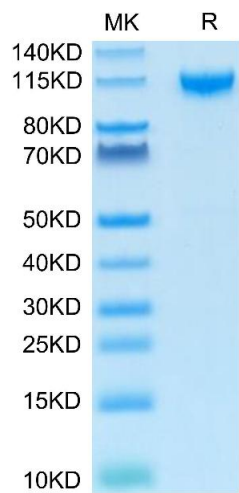
Purpose:	Human IL-27RA/TCCR Protein
Sequence:	Gly34-Lys516
Characteristics:	Recombinant Human IL-27RA/TCCR Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gly34-Lys516.
Purity:	> 95 % as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human IL-27 RA, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IL-27, His Tag with the EC50 of 36.1 determined by ELISA. The affinity constant of 3.58 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	IL27 Receptor alpha (IL27RA)
Alternative Name:	IL-27 Ra (IL27RA Products)
Background:	A multicenter, web-based Thyroid Cancer and Tumor Collaborative Registry (TCCR, http://tccr.unmc.edu) allows for the collection and management of various data on thyroid cancer (TC) and thyroid nodule (TN) patients. The TCCR is coupled with OpenSpecimen, an open-source biobank management system, to annotate biospecimens obtained from the TCCR subjects.
Molecular Weight:	79.3 kDa. Due to glycosylation, the protein migrates to 90-120 kDa based on Tris-Bis PAGE result.
UniProt:	Q6UWB1
Pathways:	Regulation of Leukocyte Mediated Immunity , Production of Molecular Mediator of Immune Response

Application Details

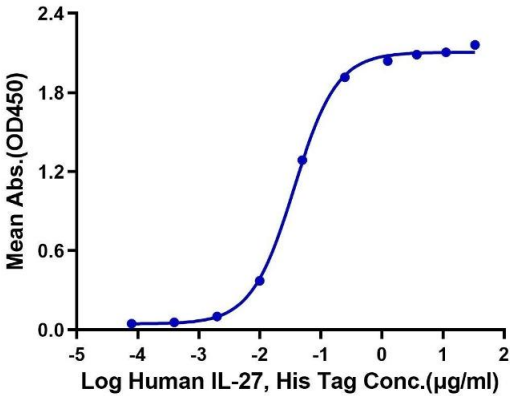
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS, 5 mM DTT (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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

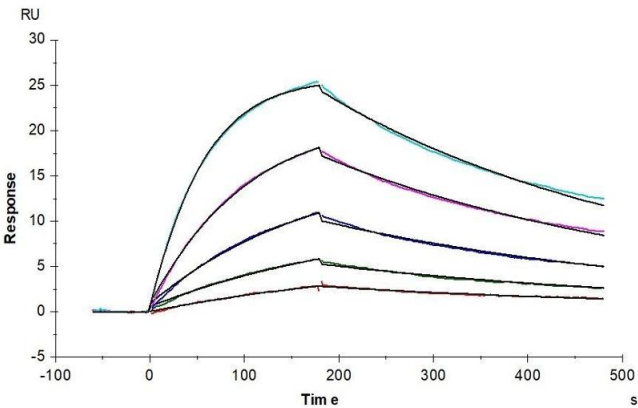
Image 1. Human IL-27RA on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Human IL-27 RA, hFc Tag ELISA
0.5µg Human IL-27 RA, hFc Tag Per Well



ELISA

Image 2. Immobilized Human IL-27 RA, hFc Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Human IL-27, His Tag with the EC50 of 36.1 determined by ELISA.



Surface Plasmon Resonance

Image 3. Human IL-27 RA, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-27, His Tag with an affinity constant of 3.58 nM as determined in SPR assay (Biacore T200).