

# Human IL-27RA/TCCR Protein

Cat. No. ILR-HM127

## Description

<b>Source</b>	Recombinant Human IL-27RA/TCCR Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gly34-Lys516.
<b>Accession</b>	Q6UWB1
<b>Molecular Weight</b>	The protein has a predicted MW of 79.3 kDa. Due to glycosylation, the protein migrates to 90-120 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

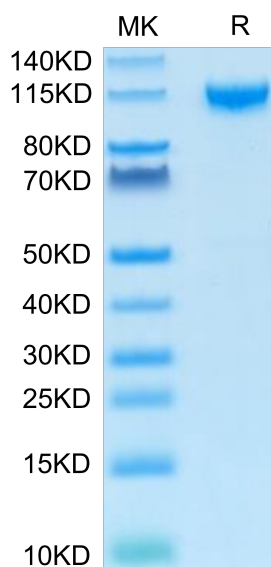
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS, 5mM DTT (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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.

## 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.

## Assay Data

### Bis-Tris PAGE



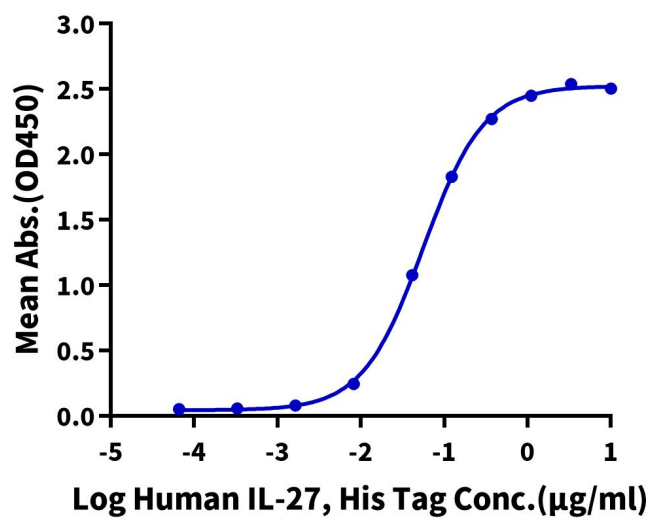
Human IL-27RA on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

## Assay Data

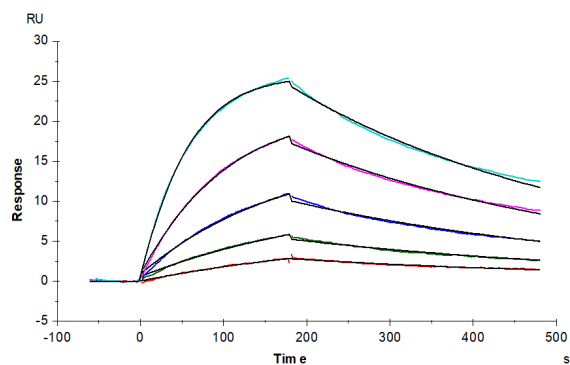
**Human IL-27 RA, hFc Tag ELISA**

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



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 55.9ng/ml determined by ELISA (QC Test).

## SPR Data



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).