

# Human IL-1RL1/ST2 Protein

Cat. No. ST2-HM1L1

## Description

<b>Source</b>	Recombinant Human IL-1RL1/ST2 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Lys19-Phe328.
<b>Accession</b>	Q01638-2
<b>Molecular Weight</b>	The protein has a predicted MW of 36 kDa. Due to glycosylation, the protein migrates to 50-70 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 > 95% as determined by HPLC

## Formulation and Storage

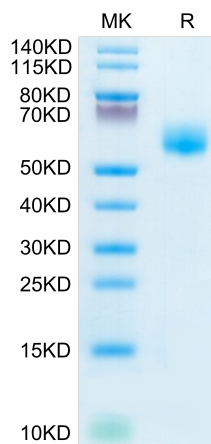
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

IL1RL1 (also known as ST2) is a member of the IL1 receptor family and serves as the receptor for IL-33. The ST2 protein has two isoforms including sST2 and the membrane-bound ST2 receptor, referred to as ST2L. Preclinical studies have demonstrated that binding of IL-33 to ST2L elicits a cardioprotective effect. ST2/IL-33 signaling may play an important role in intestinal disease.

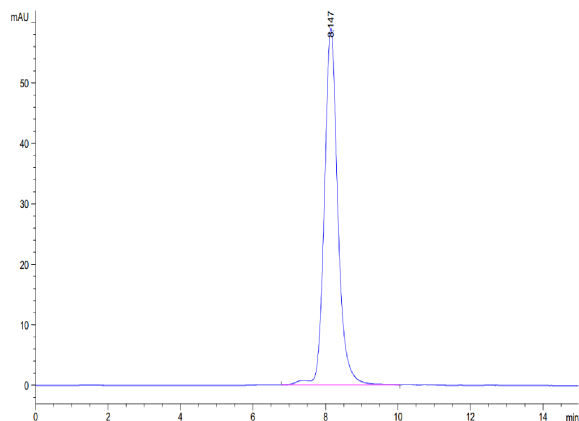
## Assay Data

### Bis-Tris PAGE



Human IL-1RL1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



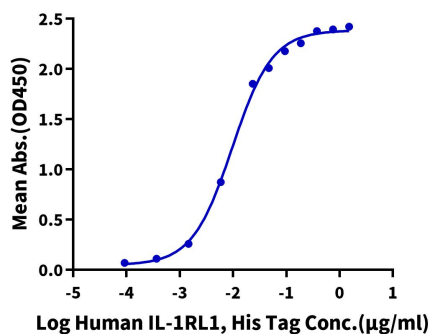
The purity of Human IL-1RL1 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human IL-1RL1, His Tag ELISA

0.5µg Human IL-33, No Tag Per Well



Immobilized Human IL-33, No Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IL-1RL1, His Tag with the EC50 of 9.6ng/ml determined by ELISA.