

# Recombinant Mouse IL-1RL1/ST2 Protein

Catalog No.: RP01538 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	17082	P14719

### Tags

C-His

### Synonyms

DER4 ;FIT-1 ;IL1RL1 ;IL33R ;IL?1?R4 ;ST2 ;ST2L ;ST2V ;T1;IL1RL1

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

<0.1EU/ $\mu$ g

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

IL-1 receptor-like 1 (IL1RL1) is a membrane receptor involved in TH2 inflammatory responses and eosinophilia. It has previously been described that levels of the interleukin-1 like 1 (IL1RL1) protein can be used to diagnose cardiovascular disease and determine the prognosis for a patient with cardiovascular disease. The ligand for IL1RL1 has been described and named IL-33. Mutants in IL1RL1 have been associated with blood eosinophil counts in a genome-wide association study and with asthma in family-based and case-control studies. As an important mediator involved in many immune and inflammatory responses, this cytokine has been implicated as a regulator of both the development and effector phases of type 2 helper T cell responses, and as a negative feedback modulator of macrophage proinflammatory function. IL33 is a specific ligand of ST2L and induces the production of Th2 cytokines.

## Basic Information

### Description

Recombinant Mouse IL-1RL1/ST2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser27-Arg332) of mouse IL-1RL1/ST2 (Accession #NP\_001020773.1) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

### Storage

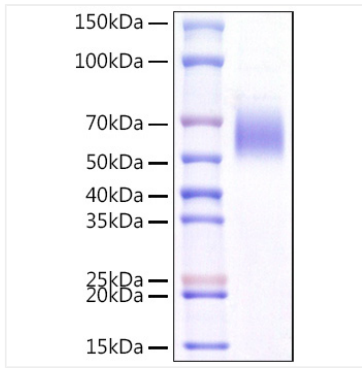
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Mouse IL-1RL1/ST2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-70kDa.