

# Recombinant Human IL1RL1/ST2 Protein (isoform a, His Tag)



Catalog Number:PKSH030755

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

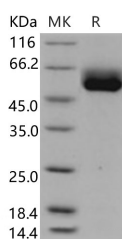
## Description

|                                    |                                                                                                                                                   |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                    | DER4;FIT-1;IL1RL1;IL33R;IL-1 R4;ST2;ST2L;ST2V;T1                                                                                                  |
| <b>Species</b>                     | Human                                                                                                                                             |
| <b>Expression Host</b>             | HEK293 Cells                                                                                                                                      |
| <b>Sequence</b>                    | Met 1-Ser 328                                                                                                                                     |
| <b>Accession</b>                   | NP_057316.3                                                                                                                                       |
| <b>Calculated Molecular Weight</b> | 36.3 kDa                                                                                                                                          |
| <b>Tag</b>                         | C-His                                                                                                                                             |
| <b>Bioactivity</b>                 | Immobilized recombinant human IL33 at 10 µg/mL (100 µl/well) can bind biotinylated human IL1RL1 (isoform A) with a linear range of 0.032-8 µg/ml. |

## Properties

|                       |                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 98 % as determined by reducing SDS-PAGE.                                                                                                                                                                                            |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                       |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                       |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.           |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.                                                                                                                                                                          |

## Data



> 98 % as determined by reducing SDS-PAGE.

## 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 pro-inflammatory function. IL33 is a

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specific ligand of ST2L and induces production of Th2 cytokines.

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