A Reliable Research Partner in Life Science and Medicine

# Recombinant Human IL1RL1/ST2 Protein (Fc Tag)

Catalog Number: PKSH031875

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

### Description

Species Human

Source HEK293 Cells-derived Human IL1RL1/ST2 protein Met 1-Phe 328, with an C-terminal

hFc

 Calculated MW
 67.1 kDa

 Observed MW
 85-95 kDa

 Accession
 NP 003847.2

Bio-activity Immobilized human IL-33 at 10 μg/ml (100 μl/well) can bind human IL1RL1 / Fc

Chimera with a linear range of 0.31-5 ng/ml.

#### **Properties**

**Purity** > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage 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.

**Shipping** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation** Lyophilized from sterile PBS, pH 7.4

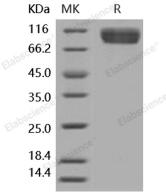
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



> 95 % as determined by reducing SDS-PAGE.

## Background

## **Elabscience Bionovation Inc.**



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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 interlukin-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 genomewide 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 production of Th2 cytokines.

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