

# Recombinant Mouse IL1RL1/ST2 Protein (Fc Tag)

Catalog Number:PKSM041051



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

## Description

<b>Synonyms</b>	Interleukin-1 receptor-like 1;Lymphocyte antigen 84;Protein ST2;Protein T1;Il1rl1;DER4;Fit-1;IL-1 R4;IL-1RL1;IL-33R;Ly84;ST2L;ST2V;suppression of tumorigenicity 2
<b>Species</b>	Mouse
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ser27-Ala337(Val192Ala)
<b>Accession</b>	P14719-2
<b>Calculated Molecular Weight</b>	62.7 kDa
<b>Observed molecular weight</b>	90-110 kDa
<b>Tag</b>	C-Fc
<b>Bioactivity</b>	Immobilized Mouse IL-33(Cat: PKSM041090) at 5µg/ml(100 µl/well) can bind Mouse ST2-Fc. The ED <sub>50</sub> of Mouse ST2-Fc is 0.25ug/ml.

## Properties

<b>Purity</b>	> 95 % 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 a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Background

ST2, also called IL-1 R4, is an Interleukin-1 receptor family glycoprotein that plays a role in Th2 immune responses. ST2 is expressed on the surface of mast cells, activated Th2 cells, macrophages, and cardiac myocytes. This receptor is very similar to the IL-1 receptor type I and the IL-18 receptor  $\alpha$  chain in that ST2 also has three extracellular Ig domains and an intracellular Toll domain. ST2 binds IL-33, enhances inflammatory cytokines by activating nuclear factor- $\kappa$ B (NF- $\kappa$ B) and mitogen activated protein (MAP) kinases. ST2 exists as either a membrane bound form (ST2L) or as a soluble form (sST2). ST2L acts as a transmembrane signalling receptor for IL-33 by mediating the effect of IL-33 on the inflammatory process, while sST2 can suppress IL-33 activity.

## For Research Use Only

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