

ST2/IL-1 RL1 Protein, Mouse, Recombinant (V192A, hFc)

General Information

Synonyms:	Protein ST2;IL-1 R4;IL-33R;ST2V;suppression of tumorigenicity 2;ST2L;Il1rl1;DER4;Ly84;IL-1RL1;Fit-1;Lymphocyte antigen 84;Protein T1;Interleukin-1 receptor-like 1
Protein Construction:	Ser27-Ala337 (Val192Ala)
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P14719-2
Molecular Weight:	90-110 KDa (reducing condition)
AA Sequence:	Ser27-Ala337

QC Testing

Biological Activity:	1. Loaded Human IL-33 on AR2G Biosensor, can bind Mouse ST2-Fc with an affinity constant of 2.28nM as determined in BLI assay. (Regularly tested) 2. Immobilized Mouse IL-33 at 5µg/ml (100 µl/well) can bind Mouse ST2-Fc. The ED50 of Mouse ST2-Fc is 0.25 ug/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/µg (1 EU/µg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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 α chain in that ST2 also has three

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extracellular Ig domains and an intracellular Toll domain. ST2 binds IL-33, enhances inflammatory cytokines by activating nuclear factor- κ B (NF- κ 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.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481