Recombinant Mouse IL1RL1/ST2 Protein (Fc Tag)

Catalog No. PKSM041051

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

Description

Synonyms	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
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Ser27-Ala337(Val192Ala)
Accession	P14719-2
Calculated Molecular Weight	62.7 kDa
Observed molecular weight	90-110 kDa
Tag	C-Fc
Bioactivity	Immobilized Mouse IL-33(Cat: PKSM041090) at 5μg/ml(100 μl/well) can bind Mouse ST2-Fc. The ED_{50} of Mouse ST2-Fc is 0.25ug/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℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	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.
Reconstitution	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 α 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-κB (NF-κB) 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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