

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

Catalog Number: 13034-H08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

DER4; FIT-1; IL1RL1; IL33R; IL-1R4; ST2; ST2L; ST2V; T1

Protein Construction:

A DNA sequence encoding the human IL1RL1 isoform A (NP_057316.3) (Met 1-Ser 328) was expressed, fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Bio Activity:

1. Measured by its binding ability in a functional ELISA.
2. Immobilized recombinant human IL33 (Cat: 10368-HNAE) at 10 µg/mL (100 µl/well) can bind biotinylated human IL1RL1 (isoform A) (Cat: 13034-H08H) with a linear range of 0.032-8 µg/ml.

Endotoxin:

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

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Lys 19

Molecular Mass:

The recombinant human IL1RL1 consists of 321 amino acids and has a calculated molecular mass of 36.3 kDa. As a result of glycosylation, the apparent molecular mass of rh IL1RL1 is approximately 55-60 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

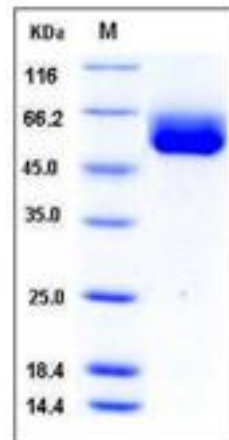
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

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 specific ligand of ST2L and induces production of Th2 cytokines.

References

Savenije OE, et al. (2011) Interleukin-1 receptor-like 1 polymorphisms are associated with serum IL1RL1-a, eosinophils, and asthma in childhood. J Allergy Clin Immunol. 127(3): 750-6.
Li H, et al. (2000) The cloning and nucleotide sequence of human ST2L cDNA. Genomics. 67(3): 284-90.

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