

Recombinant Protein Technical Manual

Recombinant Human IL1RL1/ST2 Protein (isoform a, His Tag)(Active) RPES4651

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Product SKU: RPES4651	Size: 50µg
Species: Human	Expression host: HEK293 Cells

Uniprot: NP_057316.3

Protein Information:

Molecular Mass:	36.3 kDa			
AP Molecular Mass:				
Tag:	C-His			
Bio-activity:	Measured by its binding ability in a functional ELISA.2. Immobilized recombinant human IL33 at 10 μg/mL (100 μl/well) can bind biotinylated human IL1RL1 (isoform A) with a linear range of 0.032-8 μg/ml.			
Purity:	> 98 % as determined by reducing SDS-PAGE.			
Endotoxin:	< 1.0 EU per μg of the protein as determined by the LAL method.			
Storage:	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			
Reconstitution:	Please refer to the printed manual for detailed information.			
Application:	Functional ELISA			
Synonyms:	DER4;FIT;IL1RL1;IL33R;IL-1 R4;ST2;ST2L;ST2V;T1			

Sequence: Met 1-Ser 328

Background:

IL 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 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.