

# Recombinant human ST2/IL1RL1 protein

Catalog Number: ATGP3763

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

19-328aa

### UniProt No.

Q01638

### NCBI Accession No.

NP\_057316.3

### Alternative Names

Interleukin-1 receptor-like 1, Protein ST2, homolog of mouse growth stimulation-expressed, DER4, T1, FIT-1, ST2L, ST2V, IL33R

## PRODUCT SPECIFICATION

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### Molecular Weight

36 kDa (318aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its ability to inhibit proliferation using D10.G4.1 mouse helper T cells. The ED50 range  $\leq$ 10ng/ml with Human IL-33.

### Tag

His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# Recombinant human ST2/IL1RL1 protein

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## BACKGROUND

### Description

IL1RL1, as known as interleukin-1 receptor-like 1 isoform 1, is an interleukin-1 receptor family glycoprotein that contributes to immune responses. 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. Recombinant human IL1RL1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

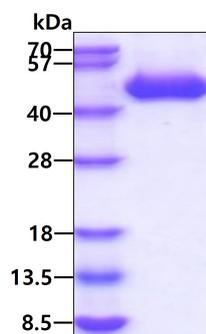
KFSKQSWGLE NEALIVRCPR QGKPSYVDW YYSQTNKSIP TQERNRVFAS GQLLKFLPAA VADSGIYTCI VRSPTFNRTG  
YANVTIYKKQ SDCNVPDYL M YSTVSGSEKN SKIYCPTIDL YNWTAPLEWF KNCQALQGSR YRAHKSFLVI DNVMTEDAGD  
YTCKFIHNEN GANYSVTATR SFTVKDEQGF SLFPVIGAPA QNEIKEVEIG KNANLTCSAC FGKGTQFLAA VLWQLNGTKI  
TDFGEPRIQQ EEGQNQFSN GLACLDMLR IADVKEEDLL LQYDCLALNL HGLRRHTVRL SRKNPIDHHS <LEHHHHHH>

### General References

Yu XX., et al. (2015) Dig. Dis. Sci. 60:1265-1272.  
Rolland T., et al. (2014) Int. J. Mol. Sci. 15:23227-23239.

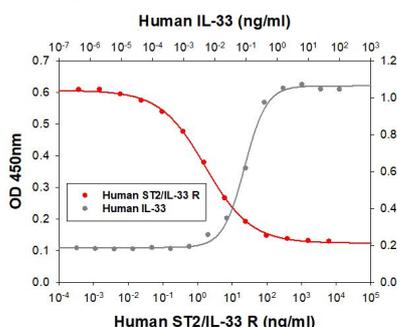
## DATA

### SDS-PAGE



3µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

### Biological Activity



Measured by its ability to inhibit proliferation using D10.G4.1 mouse helper T cells. The ED50 range ≤10 ng/ml with Human IL-33.