

# Recombinant human IL-1R alpha/IL1R1 protein

Catalog Number: ATGP3213

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

21-336aa

### UniProt No.

P14778

### NCBI Accession No.

NP\_000868.1

### Alternative Names

Interleukin-1 receptor type 1, Interleukin-1 receptor type I, CD121 antigen-like family member A, Interleukin-1 receptor alpha, IL-1R-alpha, p80, CD121a, IL-1R-1, IL-1RT-1, IL1R, IL1RA

## PRODUCT SPECIFICATION

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### Molecular Weight

37.4 kDa (324aa)

### Concentration

0.25mg/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)

### Tag

His-Tag

### Application

SDS-PAGE

### 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.

## BACKGROUND

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### Description

IL1R1, also known as interleukin-1 receptor type 1, associates with the coreceptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. It is an important mediator involved in many cytokine induced immune and inflammatory

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responses. Recombinant human IL1R1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

DKCKEREEKI ILVSSANEID VRPCPLNPNE HSGTITWYKD DSKTPVSTEQ ASRIHQHKEK LWFVPAKVED SGHYVCVVRN  
SSYCLRIKIS AKFVENEPNL CYNAQAIFKQ KLPVAGDGL VCPYMEFFKN ENNELPKLQW YKDCCKPLLD NIHFSGVKDR  
LIVMNVAEKH RGNVTCHASY TYLGKQYPIT RVIEFITLEE NKPTRPVIVS PANETMEVDL GSQIQLICNV TGQLSDIAYW  
KWNGSVIDED DPVLGEDYYS VENPANKRRS TLITVLNISE IESRFYKHPF TCFANKTHGI DAAYIQLIYP VTNFQK<LEHH  
HHHH>

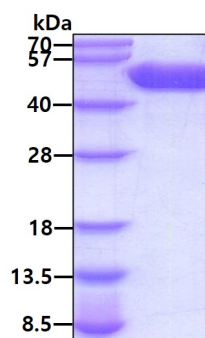
## General References

Beaulieu LM., et al. (2014) *Arterioscler. Thromb. Vasc. Biol.* 34:(3)552-564.

Moos V., et al. (2000) *Arthritis Rheum.* 43(11):2417-22.

## DATA

### SDS-PAGE



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