

# Recombinant human IL-1Ra/IL1RN protein

Catalog Number: ILA0501

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

26-177aa

### UniProt No.

P18510

### NCBI Accession No.

NP\_776214

### Alternative Names

Interleukin-1 receptor antagonist protein, IL-1RN, IL-1ra, IRAP, ICIL-1RA, IL1 inhibitor, IL1F3, IL1RA

## PRODUCT SPECIFICATION

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### Molecular Weight

17.2 kDa (153aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

### Purity

> 95% by SDS-PAGE

### Endotoxin level

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

### Tag

Non-Tagged

### 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

One of the most potent pro-inflammatory mediators is the early-acting cytokine interleukin-1 (IL-1), whose actions are regulated by the structurally related IL-1 receptor antagonist (IL-1 RA). IL-1 RA is a competitive IL-1 inhibitor and a powerful anti-inflammatory agent. Also, Several autoimmune and inflammatory diseases have been associated with an allelic polymorphism of the IL-1 RA gene. Recombinant human IL-1 RA was expressed in

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E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MRPSGRKSSK MQAFRIWDVN QKTFYLRNNQ LVAGYLGQPN VNLEEKIDVV PIEPHALFLG IHGGKMCLSC VKSGDETRLQ  
LEAVNITDLS ENRKQDKRFA FIRSDSGPTT SFESAACPGW FLCTAMEADQ PVSLTNMPDE GVMVTKFYFQ EDE

## General References

Capper., et al. (2004) Clin. Exp. Immunol. 138:348

Roberge CJ., et al. (1994) Journal of Immunology. 152: 5485-94

Carter DB., et al. (1990) Nature. 344: 633-7

## DATA

### SDS-PAGE

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

