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# Recombinant human IL-1Ra/IL1RN protein

Catalog Number: ILA0501

### **PRODUCT INFORMATION**

#### **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**

#### **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**

#### **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**

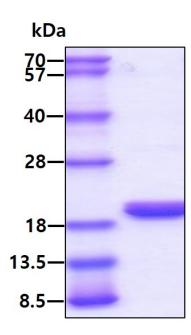
MRPSGRKSSK MQAFRIWDVN QKTFYLRNNQ LVAGYLQGPN VNLEEKIDVV PIEPHALFLG IHGGKMCLSC VKSGDETRLQ LEAVNITDLS ENRKQDKRFA FIRSDSGPTT SFESAACPGW FLCTAMEADQ PVSLTNMPDE GVMVTKFYFQ EDE

#### **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.

