

Human IL-1RA / IL1RN Protein (Fc Tag)

Catalog Number: 10123-H01H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

IL1RN, ICIL-1RA, IL-1ra3, IL1F3, IRAP, MGC10430, IL1RA

Protein Construction:

A DNA sequence encoding the mature form of human IL1RA (NP_776214.1) (Arg 26-Glu 177) was fused with the Fc region of human IgG1 at the N-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 98 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per μ g of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 20

Molecular Mass:

The recombinant human IL1RA/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 389 amino acids and predicts a molecular mass of 43.8 kDa. As a result of glycosylation, the rh IL1RA/Fc monomer migrates as approximately 45-55 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.2

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

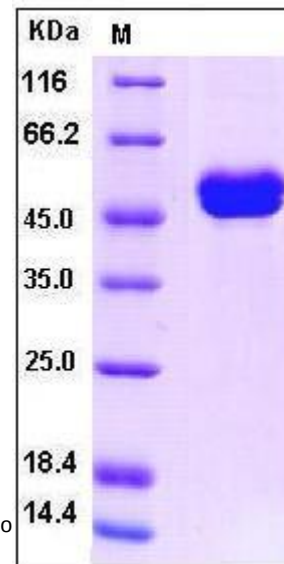
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution

th the products.

Protein Description

IL1 is an important prototypic pro-inflammatory cytokine that affects multiple cell types, often in concert with another cytokine, tumor necrosis factor (TNF). There are two forms of IL1, IL1 α and IL1 β , whose function are mediated by the two specific receptors on the cell surfaces. The IL1 receptor antagonist (IL1RA), formerly called the IL1 inhibitor, is a member of the IL1 cytokine family which binds to the same receptor (IL1R) as IL1, and thus prevents IL1 from signal transduction without interaction with the IL1 molecules. In terms of protein similarities, IL1RA is more closely related to IL1 β than it is to IL1 α . IL1RA modulates a variety of IL1-related immune and inflammatory responses, and accordingly, the balance between IL1 and IL1Ra in local tissues plays an important role in the susceptibility to and severity of many diseases. IL1RA is suggested to have possible therapeutic applications in treatment of sepsis, rheumatoid arthritis, and chronic myelogenous leukemia. Four alternatively spliced transcript variants encoding distinct isoforms have been identified, and the 17kDa soluble form of IL1RA is secreted from monocytes, macrophages, neutrophils, and other cells.

References

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2. Sehouli, J. et al., 2002, Anticancer. Res. 22: 3421-3424.
3. Arend, W.P. et al., 1998, Annu. Rev. Immunol. 16: 27-55.
4. Dinarello, C.A. et al., 1997, Cytokine. Growth. Factor. Rev. 8: 253-265.

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