

# Human IL-1R1/CD121a (Fc Tag) recombinant protein



Catalog Number: 500060

## General Information

### Gene Name Synonym

CD121 antigen-like family member A; Interleukin-1 receptor alpha; Interleukin-1 receptor type I; p80; Interleukin-1 receptor type 1, membrane form; Interleukin-1 receptor type 1, soluble form

### Protein Construction

A DNA sequence encoding the extracellular domain of human IL1R1 (NP\_000868.1) (Met 1-Thr 332) was fused with human IgG1 Fc region at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its binding ability in a functional ELISA. Immobilized human IL1-beta at 20 µg/ml (100 µl/well) can bind human IL1R1 Fc chimera with a linear ranger of 6.4-160 ng/ml.
2. Measured by its binding ability in a functional ELISA.
3. Immobilized human IL1B-his at 10 µg/mL (100 µl/well) can bind human IL1R1-Fc. The EC<sub>50</sub> of human IL1R1-Fc is 0.198 µg/mL.
4. Immobilized human IL1B at 10 µg/mL (100 µl/well) can bind human IL1R1-Fc. The EC<sub>50</sub> of human IL1R1-Fc is 0.48 µg/mL.
5. Measured by its ability to bind canine IL1B in a functional ELISA.
6. Measured by its ability to bind mouse IL1B in a functional ELISA.

### Purity

> 90 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg 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

Lys 18

### Molecular Mass

The recombinant human IL1R1/Fc chimera is a disulfide-linked homodimer. The reduced monomer consists of 553 amino acids after removal of the signal peptide and has a predicted molecular mass of 63 kDa. In SDS-PAGE under reducing conditions, it migrates with an apparent molecular mass of 80-90 kDa due to glycosylation.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

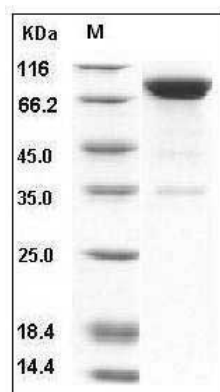
### SDS-PAGE

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