

# Rat IL-1R1/CD121a (His & Fc Tag) recombinant protein



Catalog Number: 502481

## General Information

### Gene Name Synonym

Interleukin 1 receptor, type I, isoform CRA\_a;  
Interleukin-1 receptor type 1

### Protein Construction

A DNA sequence encoding the rat IL1R1 (NP\_037255.3) extracellular domain (Met 1-Lys 352) was fused with the C-terminal His-tagged Fc region of mouse IgG1 at the C-terminus.

### Organism

Rat

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit IL1 $\alpha$  dependent proliferation in D10.G4.1 mouse helper T cells [Symons, J.A. et al. (1987) in Lymphokines and Interferons, a Practical Approach. Clemens, M.J. et al. (eds): IRL Press. 272.).

The ED<sub>50</sub> for this effect is typically 5-20  $\mu$ g/ml in the presence of 40 pg/mL of recombinant human IL1 $\alpha$ .

### Purity

> 85 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ 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

Leu 34

## Molecular Mass

The recombinant rat IL1R1/mFc is a disulfide-linked homodimer. The reduced monomer comprises 562 amino acids and predicts a molecular mass of 64.6 kDa. The apparent molecular mass of the ratIL1R1/mFc monomer is approximately 90-95 kDa in SDS-PAGE under reducing conditions 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

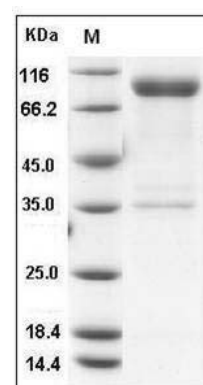
### Storage

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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