

# Recombinant Mouse IL-1 RI protein (His Tag)

Catalog Number: Eg1158

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<1.0 EU/ µg protein, LAL method

**Source:**

HEK293-derived Mouse IL-1 RI protein Leu20-Lys338 (Accession# P13504-1) with a His tag at the C-terminus.

**GeneID:**

16177

**Accession:**

P13504-1

**Predicted Molecular Mass:**

38.4 kDa

**SDS-PAGE:**

**Formulation:**

Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

IL-1R1 (IL-1 receptor type 1, also known as p80, IL-1R-alpha or CD121a) is a 80 kDa transmembrane glycoprotein and a member of the interleukin-1 receptor family. It is a receptor for IL-1 $\alpha$ , IL-1 $\beta$ , and interleukin-1 receptor antagonist (IL-1Ra). IL-1 $\alpha$  and IL-1 $\beta$  interact with the extracellular domain of IL-1R1, triggering the recruitment of an accessory receptor, the IL-1RAcP, resulting in a functional receptor complex that initiates IL-1R1 signaling cascades. IL-1Ra competes with active IL-1 and blocks binding to their common activating receptor IL-1R1 and, thus, inhibits IL-1 signaling. It has been reported that IL-1R1 may also bind IL-38. IL-1R1 expression has been found in many cell types including T cells, macrophages, neutrophils, eosinophils, basophils, mast cells, fibroblasts, and endothelial cells.

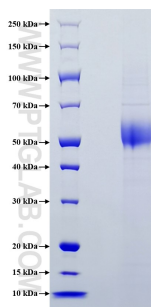
## References

1. Luís, João P et al. International journal of molecular sciences vol. 23,3 1731. 2 Feb. 2022.
2. Boraschi, Diana et al. Immunological reviews vol. 281,1 (2018): 197-232.
3. Tahtinen, Siri et al. Nature immunology vol. 23,4 (2022): 532-542.
4. Joos, L et al. Thorax vol. 56,11 (2001): 863-6.

## Synonyms

CD121 antigen-like family member A, CD121a, EC:3.2.2.6, IL1r1, IL-1r1

## Selected Validation Data



Purity of Recombinant Mouse IL-1 RI was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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