

## Active Recombinant Human IL1R1, Fc-tagged

**Cat. No.** IL1R1-299H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human IL-1RI (interleukin-1 receptor type I) (aa 21-336) is fused at the C-terminus to the Fc portion of human IgG1.                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 21-336 a.a.                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | IL-1RI is the receptor for interleukin-1 $\alpha$ (IL-1A), $\beta$ (IL-1B) and interleukin-1 receptor antagonist protein (IL-1RA). Binding to the agonist leads to the activation of NF- $\kappa$ B. Signaling involves formation of a ternary complex containing IL1RAP, leading the activation of TOLLIP, MYD88 and IRAK1 or IRAK2. |
| <b>Form</b>             | Lyophilized. Contains PBS.                                                                                                                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | Blocks IL-1 $\beta$ activity.                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | ~80kDa (SDS-PAGE)                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | ≥95% (SDS-PAGE)                                                                                                                                                                                                                                                                                                                       |
| <b>Stability</b>        | Stable for at least 6 months after receipt when stored at -20°C.                                                                                                                                                                                                                                                                      |
| <b>Storage</b>          | Short Term Storage: +4°C; Long Term Storage: -20°C. After reconstitution, prepare                                                                                                                                                                                                                                                     |

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aliquots and store at -20°C. Avoid freeze/thaw cycles. PBS containing at least 0.1% BSA should be used for further dilutions.

**Concentration** 1mg/ml after reconstitution.

## GENE INFORMATION

**Gene Name** IL1R1 interleukin 1 receptor, type I [ Homo sapiens ]

**Official Symbol** IL1R1

**Synonyms** IL1R1; interleukin 1 receptor, type I; IL1R, IL1RA; interleukin-1 receptor type 1; CD121A; D2S1473; IL-1R-1; IL-1RT1; IL-1RT-1; antigen CD121a; interleukin receptor 1; interleukin-1 receptor alpha; interleukin-1 receptor type I; CD121 antigen-like family member A; interleukin 1 receptor alpha, type I; P80; IL1R; IL1RA; IL-1R-alpha;

**Gene ID** 3554

**mRNA Refseq** NM\_000877

**Protein Refseq** NP\_000868

**MIM** 147810

**UniProt ID** P14778

**Chromosome Location** 2q12

**Pathway** Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Cytokine

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Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;

**Function**

interleukin-1 receptor activity; interleukin-1, Type I, activating receptor activity; platelet-derived growth factor receptor binding; protease binding; protein binding; receptor activity; signal transducer activity; transmembrane signaling receptor activity;

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