

# Active Recombinant Human IL1R1, Fc-tagged, Biotinylated

**Cat. No.** IL1R1-627H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      The recombinant human IL1R1 ECD is expressed as a 557 amino acid protein consisting of Leu18 -Lys336 region of IL1R1 (UniProt accession #P14778) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.

**Species**      Human

**Source**      Human Cells

**Form**      Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).

**Bio-activity**      Interacts with human IL1 $\alpha$  and IL1 $\beta$ , and blocks IL1-dependent signaling activity with a typical ED50 of 0.3 - 0.8  $\mu$ g/ml

**Molecular Mass**      Calculated molecular mass (kDa): 63.4; Estimated by SDS-PAGE under reducing condition (kDa): 75-80 (probably due to glycosylation).

**AA Sequence**      LEADKCKEREEKIILVSSANEIDVRPCPLNPNEHKGITWYKDDSKTPVSTEQASRIH  
 QHKEKLWVPAKVEDS GHYYCVVRNSSYCLRIKISAKFVENEPNLCYNAQAIFKQKL  
 PVAGDGLVCPYMEFFKNENNELPKLQWYKDCK PLLLDNIHFSGVKDRLIVMNVAE  
 KHRGNYTCHASYTYLGKQYPITRVIEFITLEENKPTRPVIVSPANETMEVD LGSQIQLI  
 CNVTGQLSDIAYWKWNGSVIDEDDPVLGEDYYSVENPANKRRSTLITVLNISEIESRF  
 YKHPFTCF AKNTHGIDAAYIQLIYPVTNFQKSTTENLYFQGSTGHTCPCPCAPPELLG  
 GPSVFLFPPKPKDTLMISRTPEVT CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR  
 EEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK TISKAKGQPREPQV

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YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDGSF  
FLYS KLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLSLSPGK

**Endotoxin**

<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein="" determined="" by="" the="" lal="">

**Purity**

>95% judged by SDS-PAGE under reducing condition

**Storage**

The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation**

Biotin

## 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](#)

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<b>Protein Refseq</b>	NP_000868
<b>MIM</b>	147810
<b>UniProt ID</b>	P14778
<b>Chromosome Location</b>	2q12
<b>Pathway</b>	Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;
<b>Function</b>	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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