

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 α and IL1 β , and blocks IL1-dependent signaling activity with a typical ED50 of 0.3 - 0.8 μ 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	LEADKCKEREEKIILVSSANEIDVRPCPLNPNEHKGITITWYKDDSKTPVSTEQASRIH QHKEKLWFVPAKVEDS GHYYCVVRNSSYCLRIKISAKFVENEPNLCYNAQAIFKQKL PVAGDGGLVCPYMEFFKNENNELPKLQWYKDCK PLLLDNIHFSGVKDRLIVMNVAE KHRGNYTCHASYTYLGKQYPITRVIEFITLEENKPTRPVIVSPANETMEVD LGSQIQLI CNVTGQLSDIAYWKWNGSVIDEDDPVLGEDYYSVENPANKRRSTLITVLNISEIESRF YKHPFTCF AKNTHGIDAAYIQLIYPVTNFKSTTENLYFQGSTGTHTCPPCPAPELLG GPSVFLFPPKPKDTLMISRTPEVT CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPR EEQYNSTYRVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEK TISKAKGQPREPQV

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	YTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGGSF 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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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 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;