

Active Recombinant Human IL1RN protein, His-tagged

Cat. No. IL1RN-495H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human IL1RN protein(P18510)(26~177 aa), fused with N-terminal His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	26-177 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	IL-1RA is an agent that binds non-productively to the cell surface interleukin-1 receptor (IL-1R), the same receptor that binds interleukin 1 (IL-1), preventing IL-1 from sending a signal to that cell. Besides, Interleukin 1 Alpha (IL-1a) has been identified as an interactor of IL-1RA, thus a binding ELISA assay was conducted to detect the interaction of recombinant human IL-1RA and recombinant human IL-1a. Briefly, IL1RA were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to IL-1a-coated microtiter wells and incubated for 2 h at 37°C. Wells were washed with PBST and incubated for 1 h with anti-IL-1RA pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding

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	activity of IL-1RA and IL-1a was shown, and this effect was in a dose dependent manner.
Molecular Mass	18.7kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.6) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	IL1RN interleukin 1 receptor antagonist [Homo sapiens]
Official Symbol	IL1RN
Synonyms	IL1RN; interleukin 1 receptor antagonist; interleukin-1 receptor antagonist protein; ICIL 1RA; IL 1RN; IL1F3; IL1RA; interleukin 1 receptor antagonist protein; intracellular interleukin 1 receptor antagonist; IRAP; MGC10430; IL1 inhibitor; IL1RN (IL1F3); type II interleukin-1 receptor antagonist; intracellular IL-1 receptor antagonist type II; intracellular interleukin-1 receptor antagonist (icIL-1ra); DIRA; MVCD4; IL-1RN; IL-1ra; IL-1ra3; ICIL-1RA;
Gene ID	3557
mRNA Refseq	NM_000577

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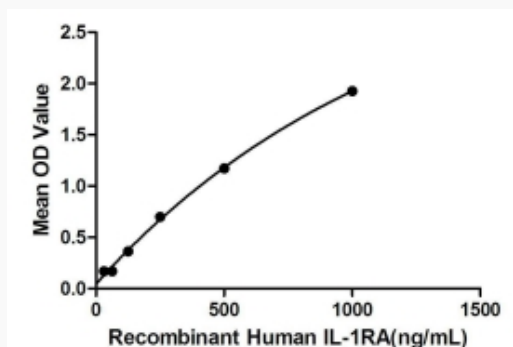
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Protein Refseq NP_000568

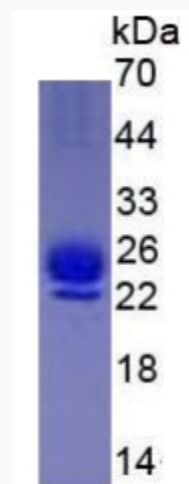
MIM 147679

UniProt ID P18510

Activity



SDS-PAGE



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