

Interleukin 1 Receptor Antagonist Active Protein | IL1RA active protein

Active Interleukin 1 Receptor Antagonist (IL1RA)

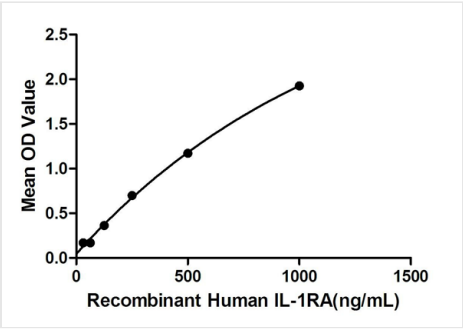
CATALOG # AAA150086	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

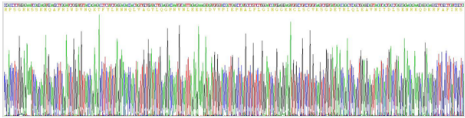
Interleukin 1 Receptor Antagonist; Active Interleukin 1 Receptor Antagonist (IL1RA); IL1RN; IL1-RA; ICIL1RA; IL1ra3; IL1F3; IRAP; IL-1RA; Interleukin-1 Family Member 3; IL1 inhibitor; Anakinra; IL1RA active protein

PRODUCT SPECIFICATIONS

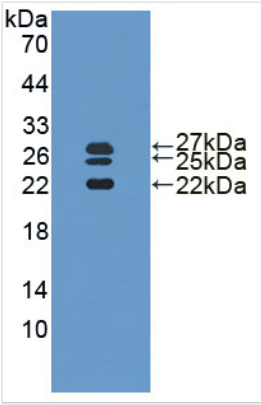
Purity/Purification	>95%
Form/Format	Freeze-dried powder PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence Positions	Arg26~Glu177
Sequence Length	143
Applicable Applications for IL1RA active protein	Activity Assay, Cell Culture
Species	Human
Tag	N-terminal His Tag
Subcellular Location	Secreted,Cytoplasm
Isoelectric Point	5.4
Reconstitution	Reconstitute in 10mM PBS (pH7.6) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Avoid repeated freeze/thaw cycles. Stability: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.



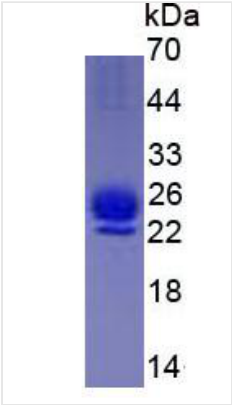
Gene Sequencing
Figure. Gene Sequencing (Extract



Bioactivity
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 100L were then transferred to IL-1a-coated microtiter wells and incubated for 2 h at 37. 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. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of IL-1RA and IL-1a was shown in Figure 1, and this effect was in a dose dependent manner. Figure. The binding activity of IL-1RA with IL-1a.



WB (Western Blot)
Figure. Western Blot; Sample: Recombinant IL1RA, Human; Antibody: Rabbit Anti-Human IL1RA Ab (PAA223Hu06



SDS-PAGE
Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for IL1RA active protein	Cytokine; Signal transduction; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	27894321
NCBI GeneID	3557
NCBI Accession #	NP_776215.1
NCBI GenBank Nucleotide #	NP_776215.1
UniProt Accession #	P18510
Molecular Weight	Predicted Molecular Mass: 18.7kDa Accurate Molecular Mass: 22kDa, 25kDa, 27kDa

NCBI Official Full Name	interleukin-1 receptor antagonist protein isoform 4
NCBI Official Synonym Full Names	interleukin 1 receptor antagonist
NCBI Official Symbol	IL1RN
NCBI Official Synonym Symbols	DIRA; IRAP; IL1F3; IL1RA; MVCD4; IL-1RN; IL-1ra; IL-1ra3; ICIL-1RA
NCBI Protein Information	interleukin-1 receptor antagonist protein
UniProt Protein Name	Interleukin-1 receptor antagonist protein
UniProt Gene Name	IL1RN
UniProt Synonym Gene Names	IL1F3; IL1RA; IL-1RN; IL-1ra; IRAP
UniProt Entry Name	IL1RA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/il1ra-active-protein/interleukin-1-receptor-antagonist/150086>