

IL-1Ra/IL-1F3/IL-1RN Recombinant Protein | IL1RN recombinant protein

Recombinant Rat IL-1Ra/IL-1F3/IL-1RN Protein

CATALOG # AAA283370	HOST E coli
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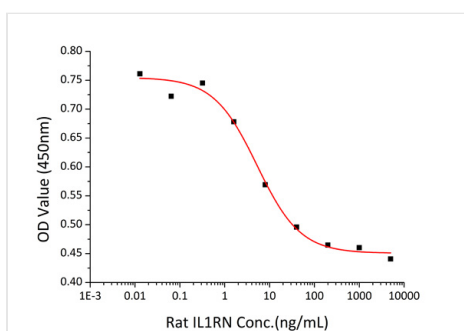
PRODUCT SYNONYMS

IL-1Ra/IL-1F3/IL-1RN; Recombinant Rat IL-1Ra/IL-1F3/IL-1RN Protein; IL-1ra;il1ra;il-1ra;IL1RA; IL1RN recombinant protein

PRODUCT SPECIFICATIONS

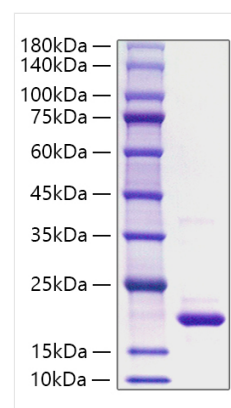
Host	E coli
Purity/Purification	>92% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH7.4.
Sequence	HPAGKRPCCKM QAFRIWDTNQ KTFYLRNNQL IAGYLQGPNT KLEEKIDMVP IDFRNVFLGI HGGKLCCLSCV KSGDDTKLQL EEVNITDLNK NKEEDKRFTF IRSETGPTTS FESLACPGWF LCTTLEADHP VSLTNTTPKEP CTVTKFYFQE DQ
Species	Rat
Endotoxin	<1EU/ug
Bio-Activity	Measured by its ability to inhibit IL-1 alpha-dependent proliferation in D10.G4.1 mouse helper T cells. The ED ₅₀ for this effect is 2.62-10.48ng/mL in the presence of 50 pg/mL of rrIL-1 alpha (Catalog: RP01736), corresponding to a specific activity of $9.54 \times 10^4 \sim 3.82 \times 10^5$ units/mg.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



Application Data

Recombinant Rat IL-1Ra/IL-1F3/IL-1RN inhibit IL-1 alpha-dependent proliferation in D10.G4.1 mouse helper T cells. The ED₅₀ for this effect is 2.62-10.48 ng/mL in the presence of 50 pg/mL of rrIL-1 alpha, corresponding to a specific activity of $9.54 \times 10^4 \sim 3.82 \times 10^5$ units/mg.



SDS-PAGE

Recombinant Rat IL-1Ra/IL-1F3/IL-1RN Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-25 kDa.

ADDITIONAL INFORMATION

Related Product Information for IL1RN recombinant protein	Interleukin-1 receptor antagonist (IL-1RA) also known as IL1RN is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A), and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. A polymorphism of this protein-encoding gene is reported to be associated with an increased risk of osteoporotic fractures and gastric cancer. IL-1RA/IL1RN may inhibit the activity of IL-1 by binding to its receptor and it has no IL-1 like activity. Genetic variation in IL-1RA/IL1RN is associated with susceptibility to microvascular complications of diabetes type 4 (MVCD4). These are pathological conditions that develop in numerous tissues and organs as a consequence of diabetes mellitus. They include diabetic retinopathy, diabetic nephropathy leading to end-stage renal disease, and diabetic neuropathy. Diabetic retinopathy remains the major cause of new-onset blindness among diabetic adults. It is characterized by vascular permeability and increased tissue ischemia and angiogenesis. Defects in IL-1RA/IL1RN are the cause of interleukin 1 receptor antagonist deficiency (DIRA) which is also known as deficiency of interleukin 1 receptor antagonist. Autoinflammatory diseases manifest inflammation without evidence of infection, high-titer autoantibodies, or autoreactive T-cells. DIRA is a rare, autosomal recessive, genetic autoinflammatory disease that results in sterile multifocal osteomyelitis, and pustulosis from birth.
Product Categories/Family for IL1RN recombinant protein	Cytokines & Cytokine receptors; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	11559964
NCBI GeneID	60582
NCBI Accession #	NP_071530.1
NCBI GenBank Nucleotide #	NM_022194.2
UniProt Accession #	P25086
UniProt Protein Name	Interleukin-1 receptor antagonist protein
UniProt Gene Name	IL1rn
UniProt Synonym Gene Names	IL-1ra; IL-1RN; IL-1ra; IRAP
UniProt Entry Name	IL1RA_RAT

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://www.aaabiotech.com/il1rn-recombinant-protein-e-coli/283370>