

RP00003

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Recombinant Human IL-1RN Protein

Catalog No.: RP00003

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<I>E. coli</I>	3557	P18510

Tags

C-His

Synonyms

DIRA; ICIL-1RA; IL-1RN; IL-1ra; IL-1ra3; IL1F3; IL1RA; IRAP; MVCD4; IL1RN; ICIL-1RA; IL-1RN; IL-1ra; IL-1ra3; IL1F3; IL1RA; IRAP; MVCD4

Product Information

Source	Purification
<I>E. coli</I>	> 97% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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 is reported to be associated with increased risk of osteoporotic fractures and gastric cancer.

Basic Information

Description

Recombinant Human IL-1RN Protein is produced by <I>E. coli</I> expression system. The target protein is expressed with sequence (Arg26-Glu177) of human IL-1RN (Accession #NP_776214.1) fused with an initial Met at the N-terminus and a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human IL1RN at 10 μg/mL (100 μL/well) can bind Recombinant Human IL1R2 with a linear range of 0.4-1.8 μg/mL.

Storage

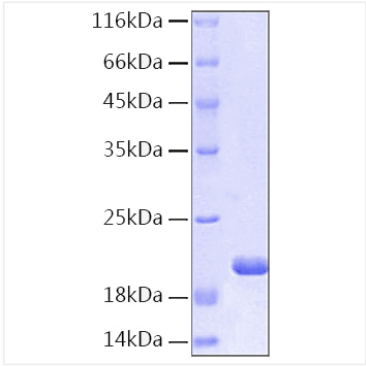
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

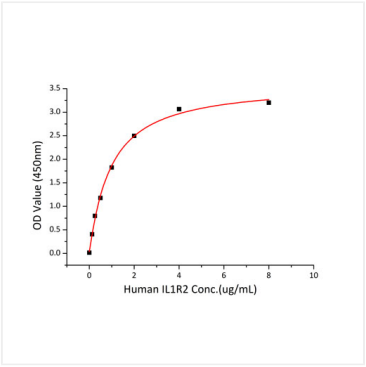


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Validation Data



Recombinant Human IL-1RN Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 21 kDa.



Immobilized Recombinant Human IL1RN at 10µg/mL (100 µL/well) can bind Recombinant Human IL1R2 with a linear range of 0.4-1.8 µg/mL.