Recombinant Human IL-1RN Protein

Catalog No.: RP00003

Sequence Information

Species
Human

Gene ID
3557

Swiss Prot
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
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
17.97 kDa

Observed MW
18-20 kDa

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 stablizer (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 *E. coli* 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.

Activity
1.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. 2.Measured by its ability to inhibit the IL-1alpha stimulation of D10.G4.1 mouse helper T cells. The ED50 for this effect is 6.73-26.94 ng/mL in the presence of 50 pg/ml of IL-1alpha, corresponding to a specific activity of 3.71×104~1.48×105 units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

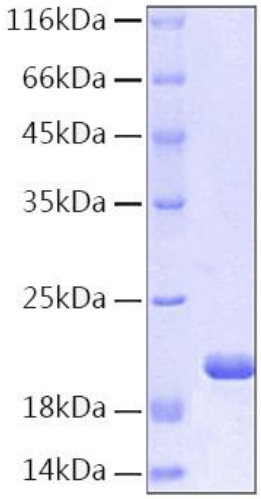
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

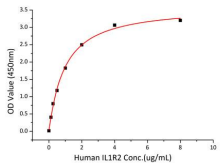
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Please visit http://abclonal.com for a complete listing of recommended products.

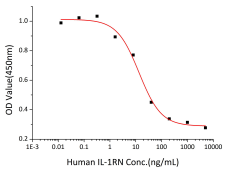
Validation Data



Recombinant Human IL-1RN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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.



Measured by its ability to inhibit the IL-1alpha stimulation of D10.G4.1 mouse helper T cells. The ED_{50} for this effect is 6.73-26.94 ng/mL in the presence of 50 pg/ml of IL-1alpha, corresponding to a specific activity of 3.71×10^{4}~1.48×10^{5} units/mg.