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

Catalog No.: RP00666

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Sequence Information

Species
Mouse

Gene ID
16181

Swiss Prot
P25085

Tags
No tag

Synonyms
IL-1ra, F630041P17Rik,IL1RN

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
17.33 kDa

Observed MW
15-25 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the tube 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 protein (Il1rn), also known as IL-1ra, IRAP or IL1 inhibitor, is a member of theinterleukin 1 cytokine family. This protein inhibits the activities of interleukin 1 alpha (IL1A) and interleukin 1beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. The mouseIl1rn gene encodes a 178 amino acids (aa) protein with a 26 aa signal peptide. Mouse Il1rn protein shares 26%and 19% identity with its homologues IL-1 beta and IL-1 alpha, respectively. Il1rn can Inhibits the activity ofinterleukin-1 by binding to receptor IL1R1 and preventing its association with the coreceptor IL1RAP forsignaling, but has no interleukin-1 like activity. Recently, an recombinant human Il1rn protein is used in thetreatment of rheumatoid arthritis, an autoimmune disease in which IL-1 plays a key role.

Basic Information

Description
Recombinant Mouse IL-1Ra/IL-1F3/IL-1RN Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Arg27-Gln178) of mouse IL-1Ra/IL-1F3/IL-1RN (Accession #P25085) fused with an initial Met at the N-terminus.

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 2.47-9.86 ng/mL in the presence of 3ng/mL of recombinant human IL-1 alpha(Catalog: RP00098), corresponding to a specific activity of 1.01×10^5~4.05×10^5 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℃

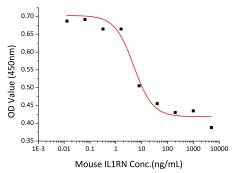
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

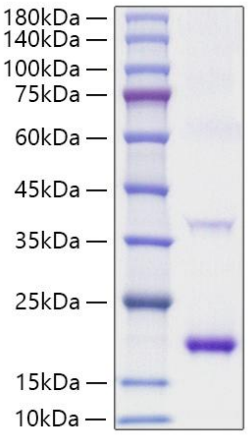
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Validation Data



Recombinant Mouse IL-1Ra/IL-1F3/IL-1RN inhibit IL-1 alpha-dependent proliferation in D10.G4.1 mouse helper T cells. The ED_{50} for this effect is 2.47-9.86 ng /mL in the presence of 3ng/mL of recombinant human IL-1 alpha(Catalog: RP00098), corresponding to a specific activity of 1.01×10^5~4.05×10^5 units/mg.



Recombinant Mouse IL-1Ra/IL-1F3/IL-1RN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.