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Recombinant Mouse IL-1RA/IL1RN Protein

Catalog No. PKSM041046

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms IL-1RN;IL-1ra;IRAP;IL1 inhibitor;Il1rn;Interleukin-1 Receptor Antagonist Protein

Species Mouse
Expression Host E.coli

Sequence Arg27-Gln178

Accession P25085

Calculated Molecular Weight 18.3 kDa

Observed molecular weight 17 kDa

Tag C-His

Bioactivity Measure by its ability to inhibit IL-1 alpha -dependent proliferation in D10.G4.1

cells. The ED₅₀ for this effect is < 50 ng/mL.

Properties

Purity > 98 % as determined by reducing SDS-PAGE.

Endotoxin < 0.1 EU per μ g of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 98 % as determined by reducing SDS-PAGE.

Background

Interleukin-1 receptor antagonist protein (II1rn), also known as IL-1ra, IRAP or IL1 inhibitor, is a member of the

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Email: techsupport@elabscience.com

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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. The mouse Il1rn 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 of interleukin-1 by binding to receptor IL1R1 and preventing its association with the coreceptor IL1RAP for signaling, but has no interleukin-1 like activity. Recently, an recombinant human II1rn protein is used in the treatment of rheumatoid arthritis, an autoimmune disease in which IL-1 plays a key role.

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