

Recombinant Human IL-1RA/IL1RN Protein

Catalog Number:PKSH031854



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

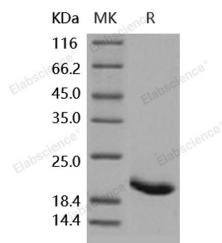
Description

Synonyms	Interleukin-1 Receptor Antagonist Protein;IL-1RN;IL-1ra;IRAP;ICIL-1RA;IL1 Inhibitor;Anakinra;IL1RN;IL1F3;IL1RA
Species	Human
Expression Host	E.coli
Sequence	Arg 26-Glu 177
Accession	NP_776214.1
Calculated Molecular Weight	17.3 kDa
Observed molecular weight	17.3 kDa
Tag	None
Bioactivity	<ol style="list-style-type: none">1. Immobilized human IL1RA at 10 µg/ml (100 µl/well) can bind human IL1R2-Fc, The EC50 of human IL1R2-Fc is 0.04-0.1 µg/mL.2. Immobilized human IL1RA at 10 µg/ml (100 µl/well) can bind human IL1R1-Fc, The EC50 of human IL1R1-Fc is 0.08-0.2 µg/mL.3. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells in the presence of 250pg/mL IL1a. The EC50 for this effect is typically 3-12 ng/mL.

Properties

Purity	> 97 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
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



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Background

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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 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.

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