

IL-1RA Protein, Human, Recombinant V2

General Information

Synonyms:	IL-1ra;MVCD4;IL-1ra3;DIRA;IRAP;IL-1RN;interleukin 1 receptor antagonist;IL1RA;ICIL-1RA; IL1F3
Protein Construction:	Arg26-Glu177
Species:	Human
Expression Host:	E. coli
Accession:	P18510
Molecular Weight:	17.26 kDa (Predicted); 18 kDa (Reducing conditions)

QC Testing

Biological Activity:	Immobilized Human AXL-His at 10 µg/ml (100 µl/well) can bind Human GAS6-His*. *: Biotinylated by NHS-biotin prior to testing The ED50 of Recombinant Human GAS6-His* is 0.04466 µg/ml. (Regularly tested)
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 8% Trehalose, 4% Mannitol, 50 mM NaCl, 0.05% Tween80, pH7.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-1 Receptor Antagonist (IL-1RN) is a member of the IL-1 family. Endogenous IL-1RN is produced in numerous animal disease models as well as in human autoimmune and chronic inflammatory diseases. It binds to IL-1 receptors in competition with IL-1, but does not elicit intracellular response from this binding. Its role in counteracting the proinflammatory effects of IL-1 is being studied by numerous research groups. IL-4 and IL-13 have been shown to amplify the stimulatory effect of IL1-beta on the production of soluble and intracellular forms

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of IL-1RN. The regulated expression of IL-1RN in various cell types has been shown to be influenced by cytokines. In synovial fibroblasts, IL-1, TNF-alpha, or PDGF markedly enhances the synthesis of IL-1RN.

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