



Recombinant Protein Technical Manual

Recombinant Human ILRA/IL1RN Protein

RPES1790

Product Data:

Product SKU: RPES1790

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P18510

Protein Information:

Molecular Mass: 17.26 kDa

AP Molecular Mass: 18 kDa

Tag:

Bio-activity:

Purity: > 95% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of 50mM TrisHCl, 200mM NaCl, pH 7.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Interleukin Receptor Antagonist Protein; ILRN; ILra; IRAP; ICILRA; IL1 Inhibitor; Anakinra; IL1RN; IL1F3; IL1RA

Immunogen Information:

Sequence: Arg26-Glu177

Background:

Interleukin Receptor Antagonist (ILRN) is a member of the IL family. Endogenous ILRN is produced in numerous animal disease models as well as in human autoimmune and chronic inflammatory diseases. It binds to IL receptors in competition with IL, but does not elicit intracellular response from this binding. Its role in counteracting the proinflammatory effects of IL is being studied by numerous research groups. IL-4 and IL3 have been shown to amplify the stimulatory effect of IL1-beta on the production of soluble and intracellular forms of ILRN. The regulated expression of ILRN in various cell types has been shown to be influenced by cytokines. In synovial fibroblasts, IL, TNF-alpha, or PDGF markedly enhances the synthesis of ILRN.