

## 32-7027: Recombinant Human IL-1 Receptor Antagonist Protein/IL-1RA/IL-1F3

**Gene :** IL1RN  
**Gene ID :** 3557  
**Uniprot ID :** P18510

### Description

Source: E.coli.  
MW :17.26kD.

Recombinant Human Interleukin-1 Receptor Antagonist Protein is produced by our E.coli expression system and the target gene encoding Arg26-Glu177 is expressed. 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 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 50mM TrisHCl, 200mM NaCl, pH 7.5.  
**Storage condition :** 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.  
**Amino Acid :** MRPSGRKSSKMQAFRIWDVNQKTFYLRNNQLVAGYLQGPVNLEEKIDVVPIEPHALFLGIHGGKMCLSCVKS  
GDETRLQLEAVNITDLSNRKQDKRFAFIRSDSGPTTSFESAACPGWFLCTAMEADQPVSLTNMPDEGVMVTK  
FYFQEDE

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

**Biological Activity :** ED50 is 0.5 ng/ml. Specific Activity of 2.0 x 10<sup>6</sup> IU/mg.