

## IL-1 RA, Human(HEK 293-expressed)

**Cat. No.:** Z03169-50

**Size:** 50.0 ug

**Synonyms:** IL-1RA, ICIL-1RA, IRAP, IL-1RN

### Description:

IL-1 Receptor Antagonist, also known as IL-1RA, ICIL-1RA, IRAP and IL-1RN, is a member of the interleukin 1 cytokine family. It is expressed by monocytes, neutrophils, macrophages, epithelial cells and fibroblasts. IL-1RA inhibits the activity of both IL-1alpha and IL-1beta, and modulates a variety of IL-1 related immune and inflammatory responses. It inhibits the activity of IL-1 by binding to the receptor IL-1R1 and preventing its association with the coreceptor IL-1RAP for signaling. Clinical studies are being conducted to investigate the use of IL-1RA in the treatment of sepsis, rheumatoid arthritis and chronic myelogenous leukemia.

### Amino Acid Sequence:

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00001 RPSGRKSSKM QAFRIWDVNQ KTFYLRNNQL VAGYLQGPV  
00041 NLEEKIDVVP IEPHALFLGI HGGKMCLSCV KSGDETRLQL  
00081 EAVNITDLSE NRKQDKRFAF IRSDSGPTTS FESAACPGWF  
00121 LCTAMEADQP VSLTNMPDEG VMVTKFYFQE DE
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**Source:** HEK 293

**Species:** Human

**Biological Activity:** ED<sub>50</sub> < 0.1 µg/ml, measured in a neutralization assay using D10S cells in the presence of 50pg/ml Human IL-1a.

**Molecular Weight:** 18-23 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant human IL-1 Receptor Antagonist remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human IL-1 Receptor Antagonist should be stable up to 1 week at 4°C or up to 2 months at -20°C.