

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

Cat. No.: Z03169-1

Size: 1.0 mg

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: ED₅₀ < 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 ddH₂O 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.