

Overview

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.
Accession No	P18510
Species	Human
Source	HEK 293
Biological Activity	ED ₅₀ < 0.1 µg /ml, measured in a neutralization assay using D10S cells in the presence of 50pg/ml Human IL-1a.
Sequence	<p>RPSGRKSSKM QAFRIWDVNQ KTFYLRNNQL VAGYLQGPNV</p> <p>NLEEKIDVVP IEPHALFLGI HGGKMCLSCV KSGDETRLQL</p> <p>EAVNITDLSE NRKQDKRFAF IRSDSGPTTS FESAACPGWF</p> <p>LCTAMEADQP VSLTNMPDEG VMVTKFYFQE DE</p>

Properties

Measured Molecular Weight	18-23 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
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.
Note	For research use only

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