

## 32-1374: IL 1RA Recombinant Protein

**Alternative Name :** IRAP,IL1F3,IL1RA,IL-1ra3,ICIL-1RA,IL1RN,IL1 inhibitor,IL-1ra,MGC10430.

### Description

Source : Escherichia Coli. IL1ra Human Recombinant produced in E.Coli is a non-glycosylated, N-terminal methionyl form of the human naturally-occurring polypeptide chain containing 153 amino acids and having a molecular mass of 17000 Dalton. The IL1ra is purified by proprietary chromatographic techniques. Interleukin-1 ra is a member of the interleukin 1 cytokine family. This protein inhibits the activities of interleukin 1, alpha (IL1A) and interleukin 1, beta (IL1B), and modulates a variety of interleukin 1 related immune and inflammatory responses. This gene and five other closely related cytokine genes form a gene cluster spanning approximately 400 kb on chromosome 2. A polymorphism of this gene is reported to be associated with increased risk of osteoporotic fractures and gastric cancer. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.

### Product Info

<b>Amount :</b>	100 µg
<b>Purification :</b>	Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	Lyophilized protein with no additives.
<b>Storage condition :</b>	Lyophilized Interleukin 1ra although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-1ra should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Arg-Pro-Ser-Gly.

### Application Note

It is recommended to reconstitute the lyophilized Interleukin-1 ra in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED50 as determined by the dose-dependant inhibition of IL-1 stimulation of D10S cells was found to be 0.5 ng/ml corresponding to a Specific Activity of 2,000,000IU/mg.