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## Product Data Sheet

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Product Name: IL 1RA Human

Cat. No.: GP20458

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IRAP; IL1F3; IL1RA; IL-1ra3; ICIL-1RA; IL1RN; IL1 inhibitor; IL-1ra; MGC10430.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Arg-Pro-Ser-Gly.		
Solubility	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.		
Formulation	Lyophilized protein with no additives.		

### Introduction

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.

### Biological Activity

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.

### Stability

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

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.

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