

## Recombinant Human Interleukin-1 Receptor Antagonist (rHuIL-1RA)

### ORDERING INFORMATION

Catalog Number	Size
40101P-20	20ug
40101P-100	100ug
40101P-1000	1000ug

**Formulation:** Sterile-filtered white lyophilized powder with no additives. Purified by proprietary chromatographic techniques.

### BACKGROUND

Interleukin-1RA is a member of the Interleukin-1 (IL-1) cytokine family. It inhibits the activities of IL-1 alpha and IL-1 beta and modulates a variety of IL-1-related immune and inflammatory responses. A polymorphism of this gene is reported to be associated with an increased risk of osteoporotic fractures and gastric cancer.

### DESCRIPTION

Recombinant human IL-1RA produced in *E. coli* is a non-glycosylated N-terminal methionyl form of the naturally-occurring polypeptide containing 153 amino acids with a molecular weight of 17kDa.

### SPECIFICATION SUMMARY

**Source:** *Escherichia coli*

**Purity:** Greater than 98% as determined by SDS-PAGE and RP-HPLC.

**Accession number:** P18510.1

**Amino acid sequence:** The sequence of the first five N-terminal amino acids is Met-Arg-Pro-Ser-Gly.

### BIOLOGICAL ACTIVITY

ED50 by dose-dependent inhibition of IL-1 stimulation of D10S cells is 0.5ng/ml which corresponds to a Specific Activity of 2,000,000IU/mg.

### RECONSTITUTION

Reconstitute in sterile distilled H<sub>2</sub>O to not less than 100ug/ml which can be further diluted in other aqueous solutions.

### STORAGE AND STABILITY

Store desiccated below -18oC. After reconstitution, store at 4oC for 2-7 days and below -18oC for future use. For long term storage of the reconstituted product, addition of 0.1% human serum albumin or bovine serum albumin is recommended. Avoid multiple freeze-thaw cycles.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*