

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

ORDERING INFORMATION

Catalog Number	Size
40101P	20ug
40101P	100ug
40101P	1.0mg

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 H₂O to not less than 100ug/ml which can be further diluted in other aqueous solutions.

STORAGE AND STABILITY

Store dessicated 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.