

## Recombinant Pig IL1RN protein

Cat. No. IL1RN-89P Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Pig IL1RN protein was expressed in Escherichia coli.

**Species** Pig

**Source** E.coli

**ProteinLength** 152

**Description** The protein encoded by this gene 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. Several alternatively spliced transcript variants encoding distinct isoforms have been reported.

**Form** Lyophilized from a 0.2µm filtered concentrated solution in 1 × PBS, pH 7.4, 1 mM DTT.

**Bio-activity** Fully biologically active when compared to standard. The ED50 as determined by inhibiting IL-1α-dependent proliferation of murine D10S cells is less than 50 ng/ml, corresponding to a specific activity of > 2.0 × 10<sup>4</sup> IU/mg in the presence of 75 pg/ml rPoIL-1α.

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<b>Molecular Mass</b>	Approximately 17.1 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
<b>AA Sequence</b>	HPLGKRPCRMQAFRIWDVNQKTFYLRNNQLVAGYLQGPNTKLEEKIDVVPVEPHFV FLGIHGGKLCVSKSGDEMKLQLDAVNITDLRKNSEQDKRFTFIRSDSGPTTSFES AACPGWFLCTALEADQPVGLTNTPKAAVKVTKFYFQQDQ
<b>Endotoxin</b>	Less than 0.1 EU/g of rPoIL-1RA as determined by LAL method.
<b>Purity</b>	>97% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

<b>Gene Name</b>	IL1RN
<b>Official Symbol</b>	IL1RN
<b>Synonyms</b>	IL1RN; interleukin 1 receptor antagonist; interleukin-1 receptor antagonist protein; IRAP; IL-1RN; IL-1ra; IL1 inhibitor; IRAP1;

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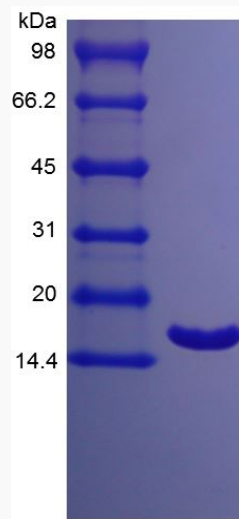
**Gene ID** 397499

**mRNA Refseq** NM\_214262

**Protein Refseq** NP\_999427

**UniProt ID** Q29056

**SDS-PAGE of IL1RN-89P**



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