

## Recombinant Pig IL1RN protein

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Pig IL1RN protein was expressed in Escherichia coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Pig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | <p>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.</p> |
| <b>Form</b>             | Lyophilized from a 0.2µm filtered concentrated solution in 1 × PBS, pH 7.4, 1 mM DTT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Bio-activity</b>     | 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 $> 2.0 \times 10^4$ 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<br>FLGIHGGKLCLSCVKSGDEMKLQLDAVNITDLRKNSEQDKRFTFIRSDSGPTTSFES<br>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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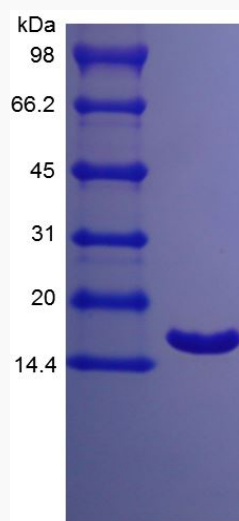
Gene ID 397499

mRNA Refseq NM\_214262

Protein Refseq NP\_999427

UniProt ID Q29056

SDS-PAGE of IL1RN-  
89P



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