

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 $> 2.0 \times 10^4$ IU/mg in the presence of 75 pg/ml rPoIL-1α.

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Molecular Mass	Approximately 17.1 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
AA Sequence	HPLGKRPCRMQAFRIWDVNQKTFYLRNNQLVAGYLQGPNTKLEEKIDVVPVEPHFV FLGIHGGKLCLSCVKSGDEMKLQLDAVNITDLRKNSEQDKRFTFIRSDSGPTTSFES AACPGWFLCTALEADQPVGLTNTPKAAVKVTKFYFQQDQ
Endotoxin	Less than 0.1 EU/g of rPoIL-1RA as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	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.
Reconstitution	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

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

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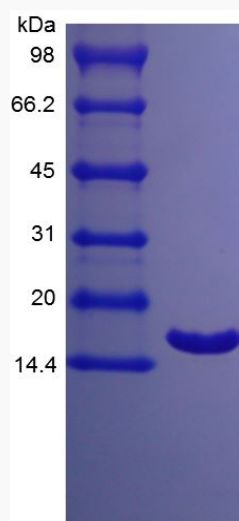
Gene ID 397499

mRNA Refseq NM_214262

Protein Refseq NP_999427

UniProt ID Q29056

SDS-PAGE of IL1RN-
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