

## Recombinant Rat Il1rn protein

**Cat. No.** Il1rn-574R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Il1rn protein was expressed in Escherichia coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	152
<b>Description</b>	<p>IL-1RA was initially called the IL-1 inhibitor which is encoded by the IL1RN gene and it is a member of the interleukin 1 cytokine family. IL-1RA is secreted by various types of cells including immune cells, epithelial cells, and adipocytes. IL-RA has functions of inhibiting the activity of interleukin-1 by binding to receptor IL1R1 and preventing its association with the coreceptor IL1RAP for signaling. IL-1RA is also used in the treatment of rheumatoid arthritis, an autoimmune disease in which IL-1 plays a key role. The rat IL-1RA is a single non-glycosylated polypeptide chain containing 152 amino acids and it has been shown to block the inflammatory responses induced by IL-1 both in vitro and in vivo. Rat IL-1RA shares 89% and 73% a.a. sequence homology with murine and human IL-1RA.</p>
<b>Form</b>	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
<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 150 ng/ml, corresponding to a specific activity of > 6.7 × 10 <sup>3</sup> IU/mg in the presence of 50 pg/ml rRtIL-

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	1α.
<b>Molecular Mass</b>	Approximately 17.4 kDa, a single non-glycosylated polypeptide chain containing 152 amino acids.
<b>AA Sequence</b>	HPAGKRPCMKQAFRIWDTNQQTFYLRNNQLIAGYLQGPNTKLEEKIDMVPIDFRNVF LGIHGGKLCVSGDDTKLQLEEVDLNLNKNKEEDKRFTFIRSETGPTTSFESLA CPGWFLCTTLEADHPVSLTNTPKPECTVTKFYFQEDQ
<b>Endotoxin</b>	Less than 1 EU/g of rRtIL-1RA as determined by LAL method.
<b>Purity</b>	>96% 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>	IL-1RN, IRAP, IL1 Inhibitor

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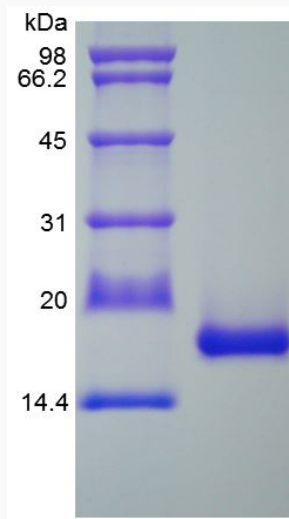
Gene ID 60582

mRNA Refseq NM\_022194

Protein Refseq NP\_071530

UniProt ID P25086

SDS-PAGE of Il1rn-574R



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