

# Growth Factor Data Sheet

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IL1RN, initially called the IL1 inhibitor, is encoded by the IL1RN gene and is a member of the interleukin 1 cytokine family. IL1RN is secreted by various types of cells including immune cells, epithelial cells, and adipocytes. ILRN functions to inhibit the activity of IL1 by binding to receptor IL1R1, preventing its association with the co-receptor IL1RAP for signaling. IL1RN is also used in the treatment of rheumatoid arthritis, an autoimmune disease in which IL1 plays a key role. The porcine IL1RN is a single non-glycosylated polypeptide chain that has been shown to block the inflammatory responses induced by IL1 both *in vitro* and *in vivo*.

<b>Catalog Number</b>	<b>1810-01C</b>
<b>Product Name</b>	<b>IL1RN (IL1-RA), Porcine</b> Recombinant Porcine Interleukin 1 Receptor Antagonist Protein IL-1RN, IL-1RA Interleukin 1 Receptor Antagonist
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~17.1 kDa (152 amino acid chains)
<b>Sequence</b>	HPLGKRPCR M QAFRIWDV NQ KTFYLRNNQL VAGYLQGPNT KLEEKIDVVP VEPHFVFLGI HGGKLC LSCV KSGDEM K LQL DAVNITDLRK NSEQDKRFTF IRSDSGPTTS FESAACPGWF LCTALEADQP VGLTNTPKAA VKVTKFYFQQ DQ
<b>Accession Number</b>	<a href="#">Q29056</a>
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> 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.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.