

## IL-1RA/IL-1F3 Protein, Porcine

<b>Cat. No.:</b>	HY-P79293
<b>Synonyms:</b>	Interleukin-1 receptor antagonist protein; IL1RN; IL-1RN; IL-1ra; IRAP; IL1 inhibitor; IRAP1; Interleukin 1 Receptor Antagonist
<b>Species:</b>	Porcine
<b>Source:</b>	E. coli
<b>Accession:</b>	Q29056 (H26-Q177)
<b>Gene ID:</b>	397499
<b>Molecular Weight:</b>	Approximately 17.55 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           H P L G K R P C R M    Q A F R I W D V N Q    K T F Y L R N N Q L    V A G Y L Q G P N T            K L E E K I D V V P    V E P H F V F L G I    H G G K L C L S C V    K S G D E M K L Q L            D A V N I T D L R K    N S E Q D K R F T F    I R S D S G P T T S    F E S A A C P G W F            L C T A L E A D Q P    V G L T N T P K A A    V K V T K F Y F Q Q    D Q         </p>
<b>Biological Activity</b>	Measured by its ability to inhibit IL-1 alpha -dependent proliferation in CTLL-2. The ED <sub>50</sub> for this effect is 0.03295 µg/mL in the presence of 50 pg/mL of recombinant porcine IL-1 alpha, corresponding to a specific activity is 4.18×10 <sup>4</sup> units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The IL-1RA/IL-1F3 protein serves as a potent anti-inflammatory antagonist within the interleukin-1 family, specifically targeting proinflammatory cytokines like interleukin-1beta/IL1B and interleukin-1alpha/IL1A. With its ability to counteract the inflammatory effects of IL1, this protein plays a crucial role in protecting against immune dysregulation and preventing uncontrolled systemic inflammation induced by a variety of innate stimulatory agents, including pathogens. By acting as a regulatory shield against IL1-mediated responses, IL-1RA/IL-1F3 contributes significantly to maintaining immune balance</p>
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and curtailing excessive inflammatory reactions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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