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## Product Data Sheet

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Product Name: IL 1RA Porcine

Cat. No.: GP20468

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IRAP; IL1F3; IL1RA; IL-1ra3; ICIL-1RA; IL1RN; IL1 inhibitor; IL-1ra; MGC10430.		
Amino Acid Sequence	HPLGKRPCRMLQAFRIWDVNVQKTFYLRNNQLVAGYLQGPNTKLEEKIDVVPVEPHFVFLGIHGGKLCCLSCVKSGDEMKLQLDAVNITDLRKNSEQDKRFTFIRSDSGPTTSFESAACPGWF LCTALEADQP VGLTNTPKAAVKVTKFYFQQDQ		
Solubility	It is recommended to reconstitute the lyophilized IL 1RA in sterile distilled H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The IL 1RA was lyophilized from a 0.2µm filtered concentrated solution in 16 <sup>L</sup> PBS, pH 7.4, containing 1mM DTT.		

**Introduction**

Interleukin-1 ra 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. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.

**Biological Activity**

The ED<sub>50</sub> as determined by inhibiting IL-1a-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-1a.

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

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### Stability

Lyophilized IL 1RA although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IL 1RA should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Recombinant IL 1RA Porcine produced in E.coli cells is a non-glycosylated, homodimeric protein containing 152 amino acid chain and having a molecular mass of 17.1kDa. The IL 1RA is purified by proprietary chromatographic techniques.

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