

# Recombinant Pig Interleukin 1, Alpha

Cat. No. IL1A-5432P Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Pig IL1A has a MW of 17.4 kDa.
<b>Species</b>	Pig
<b>Source</b>	E.coli
<b>Description</b>	<p>IL1A is a protein that in humans is encoded by the IL1A gene. The protein encoded by this gene is a cytokine of the interleukin-1 family. IL1A possesses a wide spectrum of metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. It binds to the interleukin-1 receptor. IL1A is produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. In general, Interleukin 1 is responsible for the production of inflammation, as well as the promotion of fever and sepsis.</p>
<b>Form</b>	Filtered through a 0.22 micron sterile filter. Then lyophilized, carrier-free.
<b>Molecular Weight</b>	17.4 kDa
<b>Purity</b>	>95% as determined by SDS-PAGE. Purified via sequential chromatography.
<b>Endotoxin Level</b>	<0.1 ng/g of protein
<b>Biological Activity</b>	Determined by the D10S cell line proliferation assay with MTS detection. The ED50 is 0.02-0.04 ng/ml.

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**Reconstitution** Centrifuge vial prior to opening. Lyophilized IL-1alpha may be reconstituted in water, or other appropriate buffered solutions to a concentration of 0.1-1.0 mg/ml. These stock solutions should be apportioned into working aliquots and stored at -20°C to -80°C (not a frost-free refrigerator). Further dilution should be made in medium or buffered solution containing tissue culture grade carrier protein, such as PBS with 0.1-1.0% BSA. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.

**Storage** Lyophilized IL-1alpha should be stored at 2-4°C, preferably desiccated. Store reconstituted IL-1 alpha at -20°C to -80°C (not in a frost-free refrigerator). When stored properly, IL-1 alpha is stable for greater than one year lyophilized and greater than 3 months reconstituted. Avoid repeated freeze-thaw cycles.

**Official Symbol** IL1A

## GENE INFORMATION

**Gene Name** IL1A interleukin 1, alpha [ *Sus scrofa* ]

**Synonyms** IL1A; interleukin 1, alpha; IL-1alpha; interleukin-1 alpha; IL-1 alpha; interleukin 1-alpha

**Gene ID** 397094

**mRNA Refseq** NM\_214029

**Protein Refseq** NP\_999194

**UniProt ID** P18430

**Chromosome Location** 3q12-q13; 3

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**Pathway**

Apoptosis;Cytokine-cytokine receptor interaction; Graft-versus-host disease;Hematopoietic cell lineage; Influenza A; Leishmaniasis; MAPK signalingpathway; Measles; Osteoclast differentiation; Pertussis; Prion diseases;Rheumatoid arthritis; Salmonella infection; Tuberculosis; Type I diabetesmellitus

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