

Recombinant Pig Interleukin 1, Alpha

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

SPECIFICATION

Product Overview	Recombinant Pig IL1A has a MW of 17.4 kDa.
Species	Pig
Source	E.coli
Description	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.
Form	Filtered through a 0.22 micron sterile filter. Then lyophilized, carrier-free.
Molecular Weight	17.4 kDa
Purity	>95% as determined by SDS-PAGE. Purified via sequential chromatography.
Endotoxin Level	<0.1 ng/g of protein
Biological Activity	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 [<i>Sus scrofa</i>]
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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