

## Swine recombinant IL-1 alpha (Interleukin-1 alpha) protein, AF

Catalog Number: PROTP18430-1

### Overview

Product Name	Swine recombinant IL-1 alpha (Interleukin-1 alpha) protein, AF
Description	Interleukin 1-alpha (IL-1alpha), also named hematopoietin 1, is a 17.65 kDa cytokine with 159 amino acid residues. IL-1alpha is mainly expressed in macrophages, neutrophils, epithelial cells, and endothelial cells. When IL-1alpha binds to the IL-1 receptor, it mediates a wide variety of biological processes such as cell division, angiogenesis, production of interleukin-2, and cellular sodium ion homeostasis. In addition, IL-1alpha also plays a critical role in immune responses, such as fever and inflammation, and triggers tumor necrosis factor-alpha.
Size	5ug,20ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

### Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

### Purity

>98% as determined by SDS-PAGE.

### Molecular weight

The protein has a calculated MW of 19.02 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to induce D10.G4.1 cells proliferation. The ED<sub>50</sub> for this effect is 50 pg/mL.

### Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

### Amino Acid Sequence

MSATYSFQSNMKYNFMRVINHCILNDARNQSIIRDPSGQYLMAAVLNNLDEAVKFDMAAYTSNDDSQLPVTLRISETRLFVSAQNEDEPVLLKELPET  
PKTIKDETSLLFFWEKHGNMDYFKSAAHPKLFIAATRQEKLVHMAPGLPSVTDFQILENQS with polyhistidine tag at the C-terminus.

### Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

## Usage

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