## **Recombinant Swine IL-1 alpha protein(His Tag)**

Catalog Number: PKSS000001



Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Description	
Synonyms	IL1A
Species	Porcine
Expression Host	E.coli
Sequence	Ser113-Ser270
Accession	P18430
Calculated Molecular Weight	19.0 kDa
Observed molecular weight	17-25 kDa
Tag	C-His
Bioactivity	Measure by its ability to induce D10.G4.1 cells proliferation. The $ED_{50}$ for this effect is 50 pg/mL.
Properties	
Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.1 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.
Data	
kDa 75- 63- 48- 35- 25- 17-	

> 98 % as determined by reducing SDS-PAGE.

## Background

Interleukin-1 alpha (IL1 $\alpha$ ) is a cytokine member of the interleukin-1 family. IL-1 consists of two distinct forms: IL1 $\alpha$  and IL1 $\beta$  that recognize the same cell surface receptors but are distinct proteins with approximately 25% amino acid sequence identity. IL1 $\alpha$  is constitutively produced by epithelial cells and plays an essential role in maintenance of skin barrier function. Upon stimulation, a wide variety of cells including osteoblasts, monocytes, macrophages can be induced to express IL1 $\alpha$ . IL1 $\alpha$  possesses a wide range of metabolic, physiological, haematopoietic activities, and is critically involved in the regulation of the immune responses and inflammatory responses.

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