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## Recombinant Porcine (pig) IL-1 alpha (IL-1a) Protein, HEK293 Lysate

Catalog Number: 230-10337-100

### Data Sheet / Certificate of Analysis (CoA)

Last Revised: 11/26/2024

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### Source

<b>Species</b>	Sus scrofa
<b>Accession Number</b>	P18430
<b>Gene Symbols</b>	IL1A
<b>Synonyms</b>	Interleukin-1 alpha, Interleukin 1 Alpha, Hematopoietin-1, Pro-Interleukin-1-Alpha, Preinterleukin 1 Alpha, IL-1 Alpha, IL1F1, IL1-ALPHA, IL-1A, IL1.
<b>Expressed Region</b>	Ser113-Ser270

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### Preparation

<b>Expression System</b>	HEK293 cells
<b>Tag</b>	N-terminal his-tag
<b>Purity</b>	Unpurified cell lysate. HEK293 cells transfected with expression vectors harboring target gene were harvested and washed with PBS twice. The cell pastes were re-suspended with ice-cold PBS containing mammalian cell protease inhibitor cocktail and further lysed with freeze-thaw cycles. After clarifying with 20,000 g centrifugation at 4°C for 30 min, the lysate was aliquoted, lyophilized, and stored at -80°C immediately. Protein concentration was determined by BCA kit (Thermo Scientific, Inc.) using BSA as protein standard. The gene overexpression in lysate was confirmed by Western blotting using anti-His tag antibody and/or target-specific antibodies and the lysate derived from HEK293 cells transfected with the empty expression vector was used as a negative control.
<b>Molecular Weight</b>	Recombinant protein product has a calculated molecular mass of 18. The actual molecular weight may increase slightly due to the potential post-translational modifications (PTMs).

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### Specifications

<b>Format</b>	Lyophilized powder
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS (pH 7.4) containing mammalian cell protease inhibitor cocktail

**Concentration**

Determined by BCA protein assay

**Reconstitution**

Briefly spin the vial and bring the contents to the bottom prior to opening. It is recommended to reconstitute at 0.5 - 1 mg/mL with sterile deionized water.

## Shipping

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The product is shipped with ice packs. Upon arrival, immediately store it at the temperature recommended below.

## Storage/Stability

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- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- Upon arrival, the lyophilized protein may be stored for 2 weeks at 4°C.
- For long term storage, it is recommended to store desiccated below -20°C in a manual defrost freezer.
- Generally, the shelf life is up to 12 months from date of receipt at -20°C or -80°C under sterile conditions.
- Following reconstitution, the protein may be stored for 2 weeks under sterile conditions at -20°C. For long term storage, it is recommended to make appropriate aliquots at -20°C or -80°C.