

## IL-1 alpha/IL-1A Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	Hematopoietin-1; Interleukin-1 Alpha; IL-1 $\alpha$ ; IL1A; IL1F1; Interleukin-1 $\alpha$ ; IL-1 Alpha
Protein Construction:	Ser113-Ala271
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01583
Molecular Weight:	54 KDa (reducing condition)
AA Sequence:	Ser113-Ala271

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing 20 mM Tris-HCl, 150 mM NaCl, pH 7.5.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at  $-80^{\circ}\text{C}$ . For reconstituted protein solutions, the solution can be stored at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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,

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haematopoietic activities, and is critically involved in the regulation of the immune responses and inflammatory responses.

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