



# Recombinant Protein Technical Manual

## Recombinant Human ILA/IL $\alpha$ Protein

RPES4390

### Product Data:

**Product SKU:** RPES4390

**Size:** 10 $\mu$ g

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P01583

### Protein Information:

**Molecular Mass:** 18 kDa

**AP Molecular Mass:** 17 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per  $\mu$ g as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2  $\mu$ m filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Interleukin Alpha, IL Alpha, Hematopoietin, IL1A, IL1F1

## Immunogen Information:

**Sequence:** Ser113-Ala271

## Background:

Interleukin alpha (IL1 $\alpha$ ) is a cytokine member of the interleukin family. IL 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.