

## 32-7059: Recombinant Human Interleukin-1a/IL-1a

**Gene :** IL1A  
**Gene ID :** 3552  
**Uniprot ID :** P01583

### Description

Source: E.coli.  
MW :18kD.

Recombinant Human Interleukin-1 alpha is produced by our E.coli expression system and the target gene encoding Ser113-Ala271 is expressed. Interleukin-1 alpha (IL1a) is a cytokine member of the interleukin-1 family. IL-1 consists of two distinct forms: IL1a and IL1 beta that recognize the same cell surface receptors but are distinct proteins with approximately 25% amino acid sequence identity. IL1a 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 IL1a. IL1a possesses a wide range of metabolic, physiological, haematopoietic activities, and is critically involved in the regulation of the immune responses and inflammatory responses.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM TrisHCl, 150mM NaCl, pH 7.5.  
**Storage condition :** 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.  
**Amino Acid :** SAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIRANDQYLTAALHNLDEAVKFDMGAYKSSKDDAKITVILRISKT QLYVTAQDEDEQPVLLKEMPEIPKTITGSETNLLFFWETHGTKNYFTSVAHPNLFIA TKQDYWVCLAGGPPSITDF QILENQA

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.