

## Human IL-3, His Tag, E. coli

**Catalog Number** LDG005PHE

**Package** 5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Affinity Tag

His Tag (C-term)

#### Purity

>98% as determined by SDS-PAGE analysis.

#### Activity

Measure by its ability to induce TF-1 cells proliferation. The ED<sub>50</sub> for this effect is <0.15 ng/mL. The specific activity of recombinant human IL-3 is approximately >1.2 x 10<sup>6</sup> IU/mg.

#### Form

Lyophilized

#### Expression system

Escherichia coli

#### Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

#### Molecular weight

The protein has a calculated MW of 16 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin level

<0.1 EU per 1 µg of the protein by the LAL method.

### Background

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### Background

Interleukin-3 (IL-3) is a pleiotropic cytokine which can stimulate the survival, differentiation and proliferation of committed progenitor cells, including megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. IL-3 also enhances phagocytosis and antibody-mediated cellular cytotoxicity. IL-3 binds to IL-3R (IL-3 receptor), which is composed of a unique  $\alpha$  subunit (IL-3R $\alpha$ ) and a common  $\beta$ -subunit ( $\beta c$ ).

### Uniprot ID

#P08700

### Synonyms

Interleukin-3, Hematopoietic Growth Factors, Mast cell Growth Factors, MCGF, Multipotential colony-stimulating factor, P-cell-stimulating factor

### Sequence Note

Ala20-Phe152

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

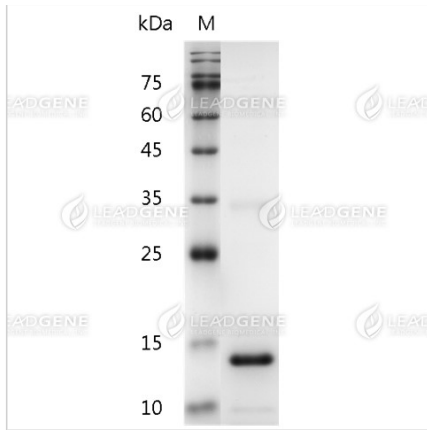
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SDS-PAGE analysis of  
recombinant human IL-3.

**Disclaimer :** For Research Use or Further Manufacturing Only.

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