

## Human IL-9, His Tag, E. coli

**Catalog Number** LDG011PHE

**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 (N-term)

#### Purity

>98% as determined by SDS-PAGE analysis.

#### Activity

Measure by its ability to induce proliferation in MO7e cells. The ED<sub>50</sub> for this effect is <0.25 ng/mL. The specific activity of recombinant human IL-9 is approximately >5 x10<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 14.93 kDa. The protein migrates as 13-17 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin level

<0.01 EU per 1 µg of the protein by the LAL method.

### Background

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### Background

Interleukin 9 (IL-9) is a pleiotropic cytokine that had pleiotropic functions in the immune system, has a molecular mass of 14.5 kDa. The major source of IL-9 is T lymphocytes. It is secreted by CD4+ helper cells that acts as a regulator of a variety of hematopoietic cells.

### Uniprot ID

#P15248

### Synonyms

Cytokine P40, T-cell Growth Factors P40, Interleukin-7

### Sequence Note

Gln19-Ile144

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200 µg/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 2 weeks 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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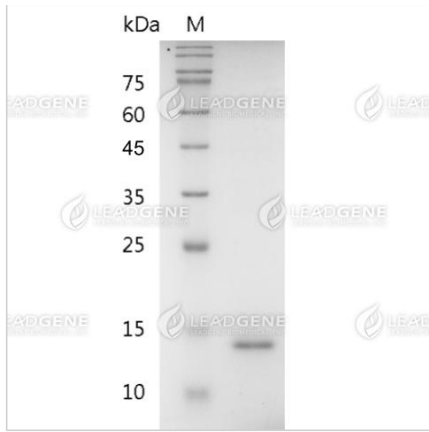
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SDS-PAGE analysis of recombinant human IL-9.

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