

# Recombinant Human IL-9 Protein

Catalog No.: RP01686 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3578	P15248

### Tags

C-6His

### Synonyms

P40; HP40; IL-9 $\square$ IL9

## Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
14.96 kDa	28-38 kDa

### Endotoxin

<0.1EU/ $\mu$ g

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Interleukin 9, also known as IL-9, is a cytokine (cell signaling molecule) belonging to the group of interleukins. IL-9 is a cytokine that acts as a regulator of a variety of hematopoietic cells. This cytokine stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL-9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes.

## Basic Information

### Description

Recombinant Human IL-9 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln19-Ile144) of human IL9 (Accession #NP\_000581.1) fused with and a 6 $\times$ His tag at the C-terminus.

### Bio-Activity

Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. Avanzi, G. et al. (1988) Br. J. Haematol. 69:359. The ED<sub>50</sub> for this effect is 0.48-1.91 ng/mL.

### Storage

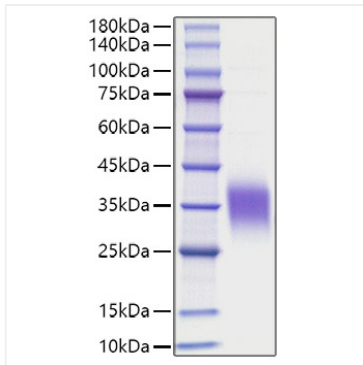
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

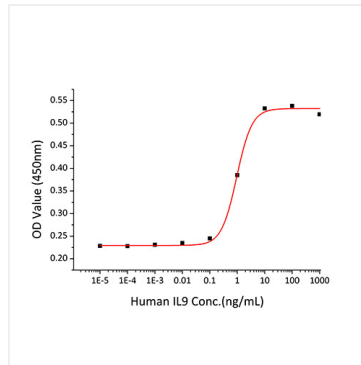
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human IL9 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 28-38 kDa.



Recombinant Human IL-9 stimulates cell proliferation of the MO7e human megakaryocytic leukemic cells. The ED<sub>50</sub> for this effect is 0.48-1.91 ng/mL.