

RP02891

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Recombinant Human IL-9 Protein

Catalog No.: RP02891

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3578	P15248

Tags

NO-tag

Synonyms

P40; HP40; IL-9 ; IL9

Product Information

Source

HEK293 cells

Purification

Endotoxin

<0.1EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm 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.

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 no tag.

Bio-Activity

Measured in a cell proliferation assay using M07e human megakaryocytic leukemic cells. The ED50 for this effect is 0.28-1.12 ng/mL, corresponding to a specific activity of $8.9 \times 10^5 \sim 3.6 \times 10^6$ units/mg.

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.

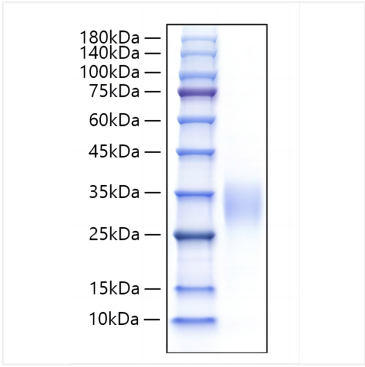
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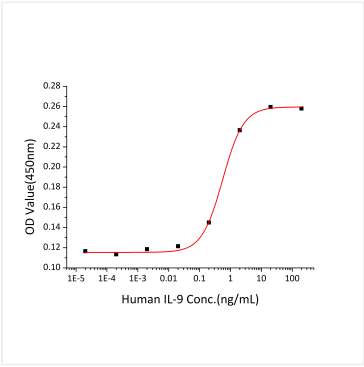
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* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Recombinant Human IL-9 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human IL-9 Protein promote the proliferation of M07e human megakaryocytic leukemic cells. The ED50 for this effect is 0.28-1.12 ng/mL, corresponding to a specific activity of $8.9\times10^5\sim3.6\times10^6$ units/mg.