

Recombinant Mouse IL-9 Protein

Catalog No.: RP01687

Sequence Information

Species	Gene ID
Mouse	16198
Swiss Prot	Tags
P15247	C-6His

Synonyms

P40; IL-9; IL9

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW Observed MW

15.01 kDa	Approximately 35 kDa
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Endotoxin

< 0.1 EU/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 Mouse IL-9 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln19-Pro144) of mouse IL9 (Accession #NP_032399.1) fused with and a 6×His tag at the C-terminus.

Activity

Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. Avanzi, G. et al. (1988) Br. J. Haematol. 69:359. The ED₅₀ for this effect is 1.72–6.88 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

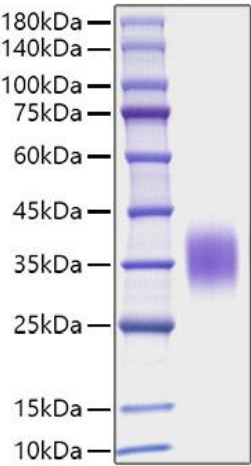
Operational Notes

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

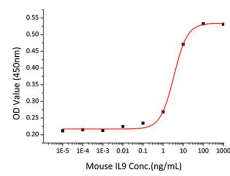
Contact

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Validation Data



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



Recombinant Mouse IL-9 stimulates cell proliferation of the MO7e human megakaryocytic leukemic cells. The ED₅₀ for this effect is 1.72~6.88 ng/mL.