

Recombinant Rat IL-9 Protein

Catalog No.: RP01664 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	116558	D4A819

Tags

C-6His

Synonyms

IL9

Product Information

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

Endotoxin

<0.1EU/μg

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.

Contact

 | 400-999-6126

 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

Background

IL-9 is a pleiotropic cytokine that influences various distinct functions of different target cells such as T cells, B cells, mast cells and airway epithelial cells by activating STAT1, STAT3 and STAT5. Because of its pleiotropic functions, IL-9 has been demonstrated to be involved in several diseases, such as cancer, autoimmunity and other pathogen-mediated immune-regulated diseases.

Basic Information

Description

Recombinant Rat IL-9 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln19-Ala144) of rat IL-9 (Accession #NP_001099217.1) fused with and a 6×His tag at the C-terminus.

Bio-Activity

Measured in a cell proliferation assay using MC/9-2 mouse mast cells. The ED₅₀ for this effect is 8.02-32.1 ng/mL.

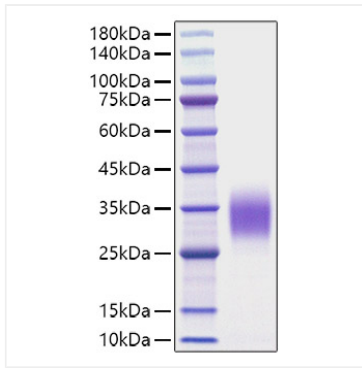
Storage

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

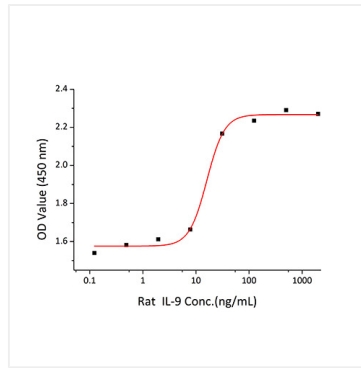
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Rat IL-9 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 156 kDa.



Recombinant Rat IL-9 stimulates cell proliferation of the MC/9-2 mouse mast cells. The ED₅₀ for this effect is 8.02-32.1 ng/mL.