

For Research Use Only

Recombinant Rat IL-9 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg2608

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Rat IL-9 protein Gln19-Ala144 (Accession# A6KAN0) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
116558

Accession:
A6KAN0

Predicted Molecular Mass:
40.2 kDa

SDS-PAGE:
55-60 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Interleukin 9 (IL-9) is a γ c-family cytokine that is highly produced by T-helper 9 (Th9) cells. IL-9 could promote the survival and activation of various cellular targets, including mast cells, B cells, T cells, and structural cells. Its expression is considered a hallmark of Th2-lineage cells. Primarily studied in Th2-type immunity, IL-9 was shown to be involved in asthma, allergy, and host defense against helminth infections. IL-9 also stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes.

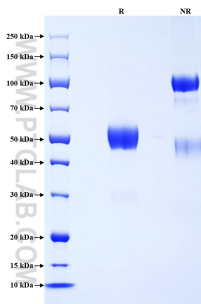
References

- 1.Khokhar M, et al. (2024) Int Rev Immunol. 43(6):341-360.
- 2.Lin JX, et al. (2018) Cold Spring Harb Perspect Biol. 4;10(9):a028449.
- 3.Demoulin JB, et al. (1998) Int Rev Immunol. 16(3-4):345-64.
- 4.Yazdani R, et al. (2019) Allergol Immunopathol (Madr). 47(1):90-104.

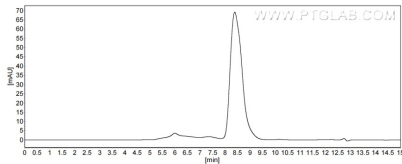
Synonyms

IL9, Interleukin 9

Selected Validation Data



Purity of Recombinant Rat IL-9 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Rat IL-9 was greater than 90% as determined by SEC-HPLC.