

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/μg 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 μm 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

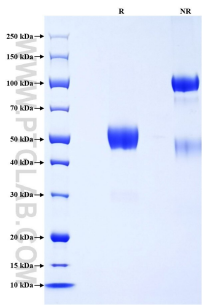
IL9, Interleukin 9

For technical support and original validation data for this product please contact

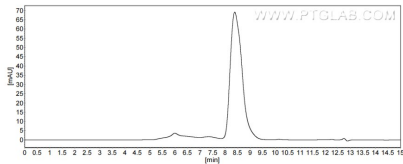
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Selected Validation Data



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.