

For Research Use Only

Recombinant Mouse IL-9 protein (rFc Tag)



Catalog Number: Eg3827

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse IL-9 protein Gln19-Pro144 (Accession# P15247) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

16198

Accession:

P15247

Predicted Molecular Mass:

40.4 kDa

SDS-PAGE:

48-62 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in 20 mM Tris, 150 mM NaCl, pH 8.0. 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.

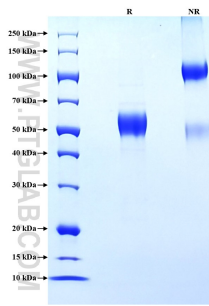
References

1. Ann S Heiman. et al. (2005) J Interferon Cytokine Res. 25(2):82-91.
2. Nicola L Diny. et al. (2016) Eur J Immunol. 46(12): 2749-2760.
3. Petronela Ancuta. et al. (2006) J Immunol. 176(10): 5760-71.
4. Witold Owczarek. et al. (2010) Cytokine. 50(2):181-5.

Synonyms

Cytokine P40, IL9, Interleukin-9, T-cell growth factor P40

Selected Validation Data



Purity of Recombinant Mouse 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.

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

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