

For Research Use Only

Recombinant Mouse IFN-gamma R1/IFNGR1 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg1536



Basic Information

Species:
Mouse

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 Mouse IFN-gamma R1 protein Ala26-Ser254 (Accession# P15261) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
15979

Accession:
P15261

Predicted Molecular Mass:
52.2 kDa

SDS-PAGE:
52-70 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

Interferon-gamma (IFN- γ) is a cytokine critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Cellular responses to IFN- γ are activated through its interaction with a heterodimeric receptor consisting of two subunits, IFNGR1 (CD119) and IFNGR2. IFNGR1 is the ligand-binding subunit which binds IFN- γ with high affinity, whereas IFNGR2 serves as the accessory subunit. Two subunits bind one IFN- γ dimer. Defects in IFNGR1 are a cause of mendelian susceptibility to mycobacterial disease (MSMD), also known as familial disseminated atypical mycobacterial infection.

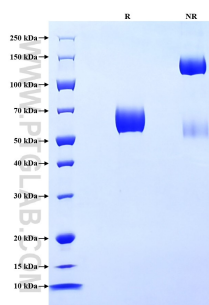
References

- 1.Schoenborn JR, et al. (2007). Adv Immunol. 96:41-101.
- 2.Larkin J 3rd, et al. (2000). J Interferon Cytokine Res. 20(6):565-76.

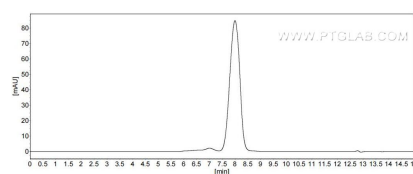
Synonyms

CD119, IFN-gamma R1, IFN-gamma receptor 1, IFN-gamma-R1, IFN-gamma-R-alpha

Selected Validation Data



Purity of Recombinant Mouse IFN-gamma R1 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 Mouse IFN-gamma R1 was greater than 90% as determined by SEC-HPLC.

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

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