

For Research Use Only

Recombinant Rat IFN-gamma R1/CD119 protein (rFc Tag)



Catalog Number: Eg4478

Basic Information

Species:
Rat

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 Rat IFN-gamma R1 protein Ala17-Ser241 (Accession# Q9QZ62) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
116465

Accession:
Q9QZ62

Predicted Molecular Mass:
51.5 kDa

SDS-PAGE:
60-85 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.

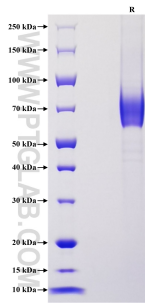
References

1. Huang CK, Chen Z, Zhou Z, et al. (2024) *Circ Res.* 135(4):518-536.
2. Du W, Hua F, Li X, et al. (2021) *Cancer Discov.* 11(7):1826-1843.
3. Soula M, Unlu G, Welch R, et al. (2024) *Nature.* 633(8029):451-458.
4. Otaki N, Motomura Y, Terooatea T, et al. (2023) *Nat Commun.* 14(1):8120.

Synonyms

Ifngr, Ifngr1, Interferon-gamma receptor

Selected Validation Data



Purity of Recombinant Rat IFN-gamma R1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

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

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