For Research Use Only

Recombinant Mouse HRG protein (rFc Tag)

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Catalog Number: Eg9623

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Mouse HRG protein Leu19-Lys525 (Accession# Q9ESB3) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
94175

Accession:
Q9ESB3

Predicted Molecular Mass:
82.8 kDa

SDS-PAGE:
90-120 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℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ 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

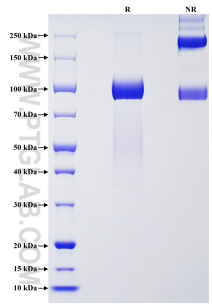
Histidine-Rich Glycoprotein (HRG or HPRG) is a highly abundant and multifunctional single-stranded plasma glycoprotein. Because of its unique molecular structure, it can bind to a variety of ligands (such as metal ions, coagulation factors, immune cell surface receptors, etc.). Genetic mutation of HRG (such as high plasma HRG level or abnormal function) is closely related to familial Thrombophilia. In addition, in patients with septicemia, the plasma HRG level usually drops sharply, which is often used as a biomarker of the severity and prognosis of the disease.

References

1. Foglia, Beatrice et al. Frontiers in immunology vol. 15 1342404. 26 Feb. 2024.
2. Schmaier, Alvin H. Blood advances vol. 7,18 (2023): 5649-5650.
3. Malik, Rida A et al. Blood advances vol. 7,18 (2023): 5651-5660.
4. Jiang, Wei et al. EMBO molecular medicine vol. 16,9 (2024): 2146-2169.

Synonyms

Selected Validation Data



Purity of Recombinant Mouse HRG 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.