For Research Use Only

Recombinant Mouse Glycophorin A protein (His Tag)

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Catalog Number: Eg1886

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
C-His

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse Glycophorin A protein Met1-Val108 (Accession# P14220) with a His tag at the C-terminus.

GeneID:
14934

Accession:
P14220

Predicted Molecular Mass:
12.2 kDa

SDS-PAGE:
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℃ 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

Glycophorin A (GYPA) is also named CD235a and PAS-2. It is a component of the ankyrin-1 complex, a multiprotein complex involved in the stability and shape of the erythrocyte membrane. GYPA is the major transmembrane sialoglycoprotein in erythrocytes. It is a dimeric type I transmembrane protein carrying 15 closely clustered O-linked tetrasaccharides capped with sialic acid/N-acetylneuraminic acid (Neu5Ac). This 36 kDa protein represents the major sialoglycoprotein of the red blood cell membrane displaying about one million copies per cell.

References

1. Vallese F, et al. (2022). Nat Struct Mol Biol. 29(7):706-718.
2. Hassoun H, et al. (1998). Blood. 91(6):2146-51.

Synonyms

glycophorin A, CD235a, Glycophorin-A, GPA, Gypa

Selected Validation Data