For Research Use Only

Recombinant Mouse CD55 protein (rFc Tag)(HPLC verified)

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Catalog Number: Eg2124

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/ μg protein, LAL method

Source:
HEK293-derived Mouse CD55 protein Asp35-Thr361 (Accession# Q61475) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
13136

Accession:
Q61475

Predicted Molecular Mass:
62.0 kDa

SDS-PAGE:
68-90 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

CD55, also known as DAF, is a glycosylphosphatidylinositol (GPI)-anchored surface glycoprotein that is widely distributed on blood, stroma, epithelial, and endothelial cells. It can also exist as a soluble form in plasma, urine, saliva, tears, and synovial fluids. CD55 is a complement regulatory protein. It inhibits formation of the C3 convertases through binding to C3b and C4b. It also binds the alternate pathway convertase C3bBb, the classical pathway convertase, and C4b2a to accelerate their decay. CD55 also serves as a receptor for coxsackieviruses B1, B3, and B5 and several enteroviruses. The observed molecular weight of mature CD55 varies between 50 to 100 kDa depending on the cell type. Different sizes of CD55 might be caused by alternative splicing or different glycosylation patterns.

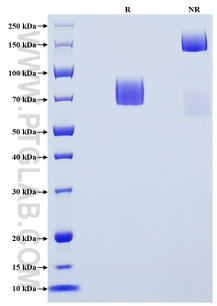
References

1. J M Bergelson, et al. (1994) Proc Natl Acad Sci U S A. Jun 21;91(13):6245-8.
2. So Hee Dho, et al. (2018) Immune Netw. Feb 20;18(1):e11.
3. D M Lublin 1, J P Atkinson. (1989) Annu Rev Immunol. 7:35-58.
4. Alejandro Ruiz-Argüelles 1, Luis Llorente. (2007) Autoimmun Rev. Jan;6(3):155-61.
5. D R Shafren, et al. (1995) J Virol. Jun;69(6):3873-7.

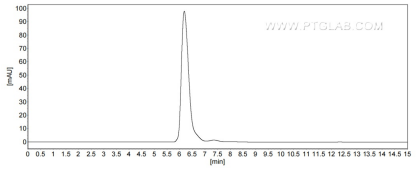
Synonyms

Cd55a, Complement decay-accelerating factor, GPI-anchored, Daf, Daf1, DAF-GPI

Selected Validation Data



Purity of Recombinant Mouse CD55 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 CD55 was greater than 90% as determined by SEC-HPLC.