For Research Use Only

Recombinant Human SERPING1/C1 Inhibitor protein (rFc Tag)

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Catalog Number: Eg9525

Basic Information

Species: Human

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 Human SERPING1 protein Asn23-Ala500 (Accession# P05155-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
710

Accession:
P05155-1

Predicted Molecular Mass:
78.4 kDa

SDS-PAGE:
100-135 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

SERPING1, also known as C1 Inhibitor (C1INH), is a member of the Serine proteinase inhibitor family. Its main function is the inhibition of the complement system to prevent spontaneous activation. It inhibits activated C1r and C1s of the first complement component and thus regulates complement activation. Deficiency of this protein is associated with hereditary angioneurotic oedema (HANE).

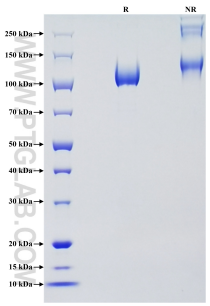
References

1. Cugno, Massimo et al. Trends in molecular medicine vol. 15,2 (2009): 69-78.
2. Haslund, Didde et al. The Journal of clinical investigation vol. 129,1 (2019): 388-405.
3. Ryø, Laura Barrett et al. The Journal of allergy and clinical immunology vol. 152,5 (2023): 1218-1236.e9.

Synonyms

Serpin G1, SERPING1, C1 esterase inhibitor, C1 Inh, C1 inhibiting factor

Selected Validation Data



Purity of Recombinant Human SERPING1 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.

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