For Research Use Only

Recombinant Human C4BPB protein (rFc Tag)

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Catalog Number: Eg2976

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 C4BPB protein Ser18-Leu252 (Accession# P20851-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
725

Accession:
P20851-1

Predicted Molecular Mass:
52.4 kDa

SDS-PAGE:
57-80 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

Complement 4 binding protein beta chain (C4BPB) is one of the two polypeptides that in humans compose plasma glycoprotein C4b-binding protein (C4BP). C4BPB binds anticoagulant vitamin K-dependent S. C4BPB controls the classical pathway of complement activation. It binds as a cofactor to the C3b/C4b inactivator (C3bINA), hydrolyzing the complement fragment C4b. It also accelerates the degradation of the C4bC2a complex (C3 convertase) by dissociating the complement fragment C2a.

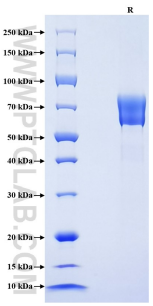
References

1.Rodríguez de Córdoba S. et al. (1994) Genomics. 21(3):501-509.
2.Kadavá T. et al. (2024) EMBO J. 43(14):3009-3026.

Synonyms

C4b binding protein beta chain, C4b-binding protein beta chain, C4BP

Selected Validation Data



Purity of Recombinant Human C4BPB was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.