

Active Recombinant Human CFHR3 protein, His-tagged

Cat. No. CFHR3-765H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human CFHR3 protein(Q02985)(208-330 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	208-330 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Complement Factor H Related Protein 3 (CFHR3) is a member of a family of proteins related to the complement factor H. Factor H related proteins comprise a group of five plasma proteins: CFHR1, CFHR2, CFHR3, CFHR4 and CFHR5, and each member of this group binds to the central complement component C3b. Its principal function is to regulate the Alternative Pathway of the complement system, ensuring that the complement system is directed towards pathogens or other dangerous material and does not damage host tissue. Factor H regulates complement activation on self cells and surfaces by possessing both cofactor activity for the Factor I mediated C3b cleavage, and decay accelerating activity against the alternative pathway C3-convertase, C3bBb. Besides, Peroxiredoxin4 (PRDX4) has been identified as an interactor of CFHR3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human CFHR3 and recombinant human PRDX4. Briefly,

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CHFR3 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to PRDX4-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-CFHR3 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of CFHR3 and PRDX4 was shown, and this effect was in a dose dependent manner.

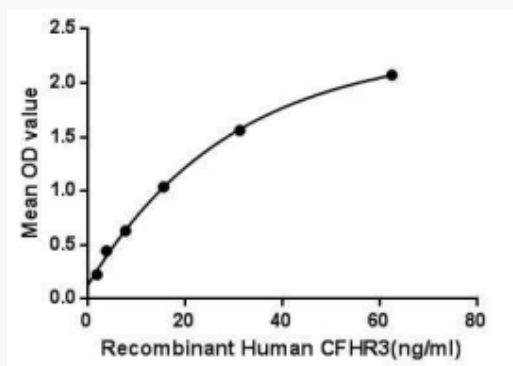
Molecular Mass 17.7kDa

Purity > 97%

Storage Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

Activity

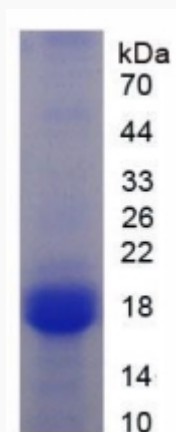


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SDS-PAGE



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