

Biotinylated Rat Complement Factor B Protein, His,Avitag™

Catalog # CFB-R82Q3



Synonyms

AHUS4, ARMD14, BF, BFD, CFAB, CFBD, FB, FBI12, GBG, H2-Bf, PBF2

Source

Biotinylated Rat Complement Factor B Protein, His,Avitag (CFB-R82Q3) is expressed from human 293 cells (HEK293). It contains AA Thr 23 - Leu 761 (Accession # [Q6MG74](#)).

Predicted N-terminus: His

Molecular Characterization



This protein carries a polyhistidine tag at the N-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 86.7 kDa. The protein migrates as 95-105 kDa and 110-130 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avi tag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

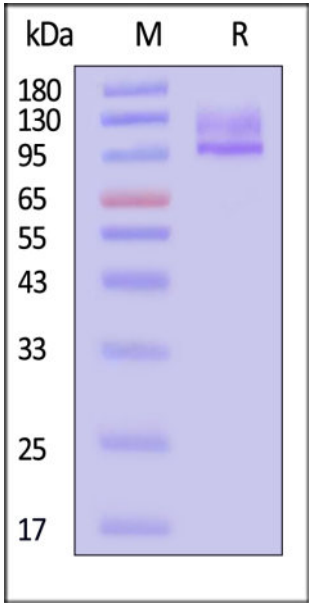
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Biotinylated Rat Complement Factor B Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Background

Complement factor B is a component of the alternative pathway (AP) of complement activation. Factor B is one of the upstream, proximal components unique to the AP and is essential for the activation of the pathway. It is an integral component that drives the amplification loop. It is cleaved by factor D into two fragments: Ba and Bb. Bb, a serine protease, then combines with C3b to form the AP C3 convertase (and, upon binding additional C3b, the C5 convertase). Bb has also been implicated in the proliferation and differentiation of preactivated B-lymphocytes and the stimulation of lymphocyte blastogenesis. In contrast, Ba inhibits the proliferation of preactivated B-lymphocytes and mediates the rapid spreading of peripheral blood monocytes. Through the convertases, factor B ultimately contributes to effector functions such as the lysis of erythrocytes.



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