

Rev04
 Update: Sep,19,2025

DATASHEET

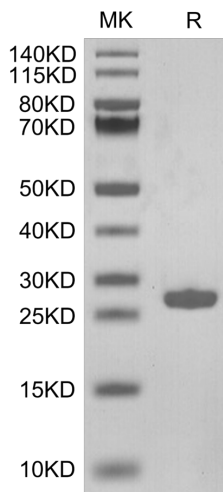
Complement Factor D/CFD, His, Human

Cat. No.: Z05192

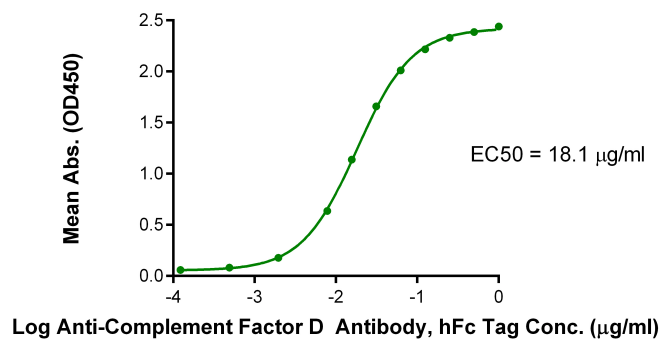
Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> Complement Factor D/CFD (Ile26-Ala253) Accession # P00746-1 </div> <div style="background-color: #76923c; color: white; padding: 5px; text-align: center; margin-left: 10px;"> His </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	25.5 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 26-27 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage & Stability	Upon receiving, the product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 3 months at -80°C. Avoid repeated freeze-thaw cycles.

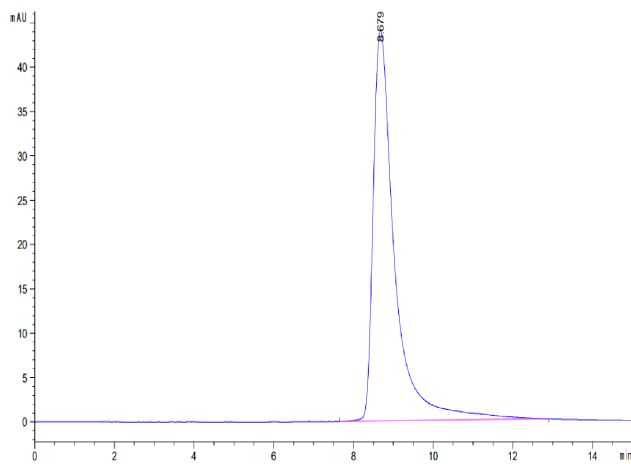
Examples



Complement Factor D/CFD, His, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



Immobilized Complement Factor D/CFD, His, Human, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-Complement Factor D Antibody, hFc Tag with the EC50 of 18.1ng/ml determined by ELISA.



The purity of Complement Factor D/CFD, His, Human is greater than 95% as determined by SEC-HPLC.

Background

Target Background : Complement factor D is a serine protease essential for the activation of the alternative pathway and is expressed in the kidney, adipocytes, and macrophages. Factor D is found at relatively high levels in glomeruli suggesting that this component of the complement cascade could influence renal pathophysiology. Complement factor D or alternative pathway activation is needed to prevent spontaneous accumulation of C3 and IgM deposits within the mesangium.

Synonyms : Adipsin; C3 convertase activator; Complement factor D; CFD; PFD; DF; ADN; FACTOR D; AMBP-1; EC 3.4.21; EC 3.4.21.46

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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