

Human Complement Factor D/CFD Protein

Cat. No. CFD-HM201

Description

Source	Recombinant Human Complement Factor D/CFD Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ile26-Ala253.
Accession	P00746-1
Molecular Weight	The protein has a predicted MW of 51.2 kDa. Due to glycosylation, the protein migrates to 52-60 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

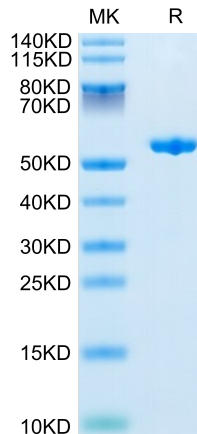
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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.

Assay Data

Bis-Tris PAGE

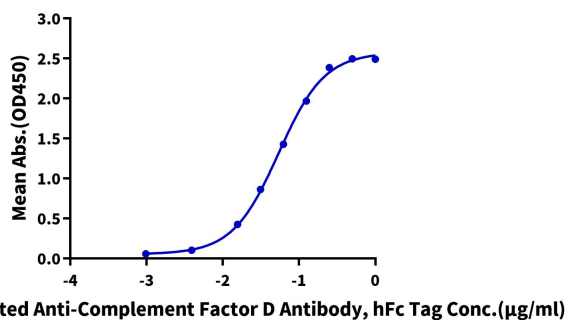


Human Complement Factor D on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human Complement Factor D, hFc Tag ELISA

0.2µg Human Complement Factor D, hFc Tag Per Well



Immobilized Human Complement Factor D, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-Complement Factor D Antibody, hFc Tag with the EC50 of 53.7ng/ml determined by ELISA (QC Test).

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Assay Data

Bioactivity Data

Measured by its ability to cleave a colorimetric peptide substrate, N-carbobenzyloxy-Lys-ThioBenzyl ester (Z-Lys-SBzl), in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The specific activity is >18 pmoles/min/μg (QC Test).