

# Mouse Complement Factor D/CFD Protein

Cat. No. CFD-MM201

## Description

<b>Source</b>	Recombinant Mouse Complement Factor D/CFD Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ile26-Ser259.
<b>Accession</b>	P03953-1
<b>Molecular Weight</b>	The protein has a predicted MW of 52.2 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

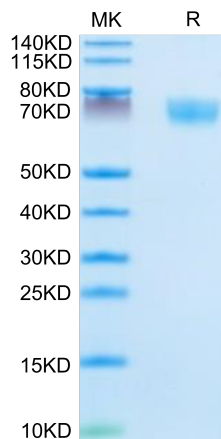
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in 20mM Tris, 500mM NaCl (pH 7.4). Normally 8% mannitol is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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.

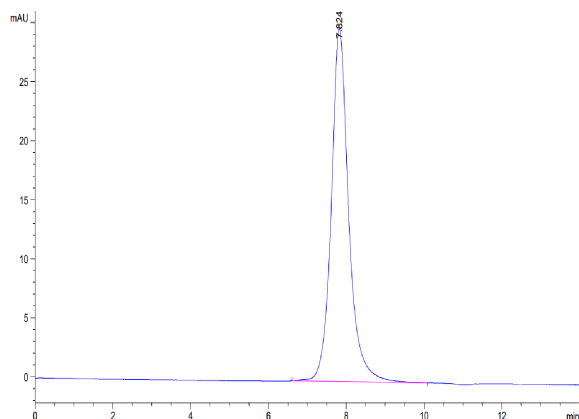
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



The purity of Mouse Complement Factor D is greater than 95% as determined by SEC-HPLC.