

## Recombinant Mouse Complement Factor H/CFH Protein (His Tag)

**Catalog Number:** PKSM041346

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

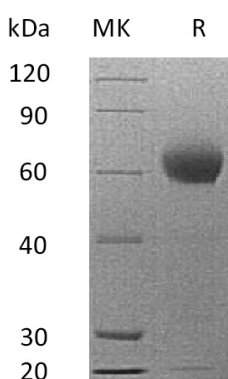
### Description

<b>Species</b>	Mouse
<b>Source</b>	HEK293 Cells-derived Mouse Complement Factor H/CFH protein Ser875-Val1252, with an C-terminal His
<b>Calculated MW</b>	43.4 kDa
<b>Observed MW</b>	50-75 kDa
<b>Accession</b>	E9Q8I0
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



### Background

Complement factor H(CFH) is a 155 kDa glycoprotein that functions as a cofactor in the inactivation of C3b by factor I. It also increases the rate of dissociation of the C3bBb complex (C3 convertase) and the (C3b)NBB complex (C5 convertase) in the alternative complement pathway. CFH expressed by the liver and secreted in plasma. This recombinant protein corresponds to SCR15-20 which encompass the primary binding sites for heparin and C3b as well as for the peptide hormone adrenomedullin. Within SCR15-20, mouse Factor H shares 60% and 80% amino acid sequence identity with human and rat Factor H, respectively. Dozens of mutations clustered in SCR15-20 are associated with atypical hemolytic uremic syndrome, a disorder characterized by anemia, thrombocytopenia, and renal failure.

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