



Recombinant Protein Technical Manual
Recombinant Mouse Complement Factor H/CFH
Protein (His Tag)
RPES1909

Product Data:

Product SKU: RPES1909

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: E9Q8I0

Protein Information:

Molecular Mass: 43.4 kDa

AP Molecular Mass: 60-75 kDa

Tag: C-His

Bio-activity:

Purity: > 90% as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150mM NaCl, pH8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Complement factor H; Protein beta-H; CFH; beta-H-globulin

Immunogen Information:

Sequence: Ser875-Val1252

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.