

Factor H Active Protein | CFH active protein

Factor H Protein, Human, Recombinant (His Tag)

CATALOG #
AAA257920

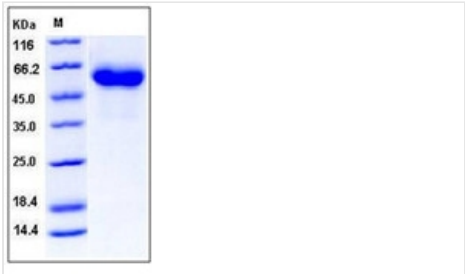
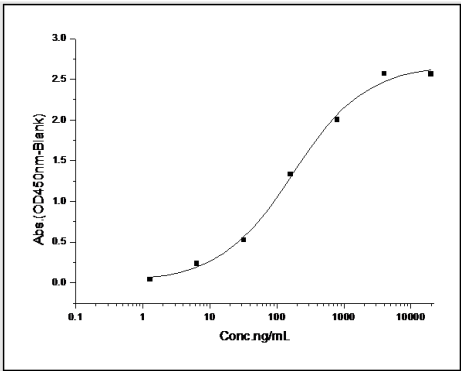
HOST
HEK293 Cells

PRODUCT SYNONYMS

Factor H; Factor H Protein; Human; Recombinant (His Tag); Human Complement Factor H/CFH Protein (His Tag); AHUS1 Protein; AMBP1 Protein; ARMD4 Protein; ARMS1 Protein; CFHL3 Protein; FH Protein; FHL1 Protein; HF Protein; HF1 Protein; HF2 Protein; HUS Protein; complement factor H; CFH active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Ser860-Arg 1231
Species	Human
Activity	Measured by its ability to bind biotinylated human DMP1 in a functional ELISA.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ser 860
Tag	C-His
Protein Construction	A DNA sequence encoding the C-terminal segment of CFH isoform a (NP_000177.2), corresponding to amino acid (Ser 860-Arg 1231) was expressed, fused with a polyhistidine tag at the C-terminus and a signal peptide at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its ability to bind biotinylated human DMP1 in a functional ELISA.

ADDITIONAL INFORMATION

Related Product Information for CFH active protein	Background: Complement factor H, also known as H factor 1, and CFH, is a sialic acid containing glycoprotein that plays an integral role in the regulation of the complement-mediated immune system that is involved in microbial defense, immune complex processing, and programmed cell death. Factor H protects host cells from injury resulting from unrestrained complement activation. CFH regulates complement activation on self cells by possessing both cofactor activity for the Factor I mediated C3b cleavage, and decay accelerating activity against the alternative pathway C3 convertase, C3bBb. CFH protects self cells from complement activation but not bacteria/viruses. Due to the central role that CFH plays in the regulation of complement, there are many clinical implications arising from aberrant CFH activity. Mutations in the Factor H gene are associated with severe and diverse diseases including the rare renal disorders hemolytic uremic syndrome (HUS) and membranoproliferative glomerulonephritis (MPGN) also termed dense deposit disease (DDD), membranoproliferative glomerulonephritis type II or dense deposit disease, as well as the more frequent retinal disease age related macular degeneration (AMD). In addition to its complement regulatory activities, factor H has multiple physiological activities and 1) acts as an extracellular matrix component, 2) binds to cellular receptors of the integrin type, and 3) interacts with a wide selection of ligands, such as the C-reactive protein, thrombospondin, bone sialoprotein, osteopontin, and heparin.
Product Categories/Family for CFH active protein	Complement Activation Pathways
References	Zipfel PF. (2001) Complement factor H: physiology and pathophysiology. Semin Thromb Hemost. 27(3): 191-9.Zipfel PF, et al. (2008) The complement fitness factor H: role in human diseases and for immune escape of pathogens, like pneumococci. Vaccine. 26 Suppl 8: I67-74.Ferreira VP, et al. (2010) Complement control protein factor H: the good, the bad, and the inadequate. Mol Immunol. 47(13): 2187-97.Donoso LA, et al. (2010) The role of complement Factor H in age-related macular degeneration: a review. Surv Ophthalmol. 55(3): 227-46.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62739186
NCBI GeneID	3075
NCBI Accession #	NP_000177.2
NCBI GenBank Nucleotide #	NM_000186.3
UniProt Accession #	P08603; P78435; Q14570; Q2TAZ5; Q38G77; Q5TFM3; Q8N708; Q9NU86; A5PL14
Molecular Weight	1231 (449)
NCBI Official Full Name	complement factor H isoform a
NCBI Official Synonym Full Names	complement factor H
NCBI Official Symbol	CFH
NCBI Official Synonym Symbols	FH; HF; HF1; HF2; HUS; FHL1; AHUS1; AMBP1; ARMD4; ARMS1; CFHL3

NCBI Protein Information	complement factor H; beta-1H; factor H-like 1; beta-1-H-globulin; H factor 1 (complement); H factor 2 (complement); adrenomedullin binding protein; complement factor H, isoform b; age-related maculopathy susceptibility 1
UniProt Protein Name	Complement factor H
UniProt Gene Name	CFH
UniProt Synonym Gene Names	HF; HF1; HF2
UniProt Entry Name	CFAH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-cfh-active-protein/factor-h/257920>