

Bioactive

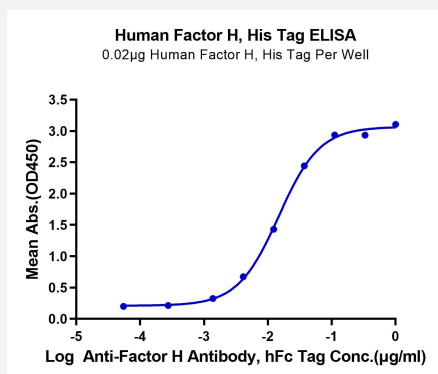
HuPro®

CFH (Human) Recombinant Protein

Catalog # P9820

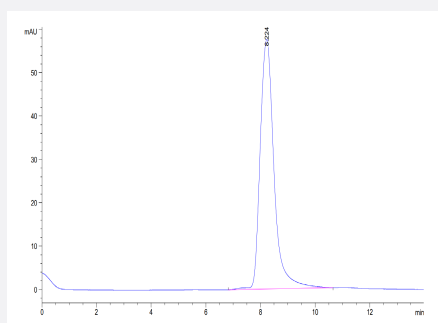
Size 100 ug

Applications



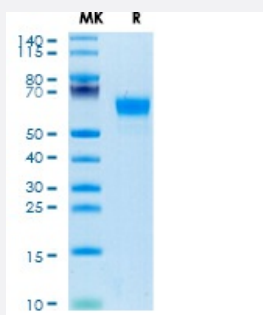
Enzyme-linked Immunoabsorbent Assay

Immobilized Human Factor H, His Tag at 0.2 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-Factor H Antibody, hFc Tag with the EC50 of 14.8 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human Factor H is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

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

Specification

Product Description	Human CFH (P08603-1, Ser860-Arg1231) partial recombinant protein with His tag at C-Terminus expressed in HEK293 cells.
Sequence	Ser860-Arg1231
Host	Human
Theoretical MW (kDa)	42.8
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 14.8 ng/mL, measured by ELISA at 0.2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human Factor H is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human Factor H on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human Factor H, His Tag at 0.2 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-Factor H Antibody, hFc Tag with the EC₅₀ of 14.8 ng/mL determined by ELISA.

- Functional Study

- SDS-PAGE

Gene Info — CFH

Entrez GeneID [3075](#)

Protein Accession# [P08603-1](#)

Gene Name CFH

Gene Alias ARMD4, ARMS1, CFHL3, FH, FHL1, HF, HF1, HF2, HUS, MGC88246

Gene Description complement factor H

Omim ID [134370](#) [235400](#) [609814](#) [610698](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene is a member of the Regulator of Complement Activation (RCA) gene cluster and encodes a protein with twenty short consensus repeat (SCR) domains. This protein is secreted into the bloodstream and has an essential role in the regulation of complement activation, restricting this innate defense mechanism to microbial infections. Mutations in this gene have been associated with hemolytic-uremic syndrome (HUS) and chronic hypocomplementemic nephropathy. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq]

Other Designations H factor 1 (complement)|H factor 2 (complement)|OTTHUMP00000033598|age-related maculopathy susceptibility 1|beta-1-H-globulin|beta-1H|complement factor H, isoform b|factor H|factor H-like 1

Pathway

- [Complement and coagulation cascades](#)

Disease

- [Alport syndrome](#)
- [Alzheimer disease](#)
- [Arthritis](#)
- [Asthma](#)
- [Ataxia telangiectasia](#)
- [Atherosclerosis](#)
- [Atrophy](#)

- [Blindness](#)
- [Brain Ischemia](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cerebrovascular Accident](#)
- [Chlamydia Infections](#)
- [Chlamydophila Infections](#)
- [Choroid Diseases](#)
- [Choroidal Neovascularization](#)
- [Choroiditis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Diseases in Twins](#)
- [Ductus Arteriosus](#)
- [Edema](#)
- [Functional Laterality](#)
- [Genetic Predisposition to Disease](#)
- [Geographic Atrophy](#)
- [Glomerulonephritis](#)

- [Hemolytic-Uremic Syndrome](#)
- [Hyperlipoproteinemia Type II](#)
- [Hypertension](#)
- [Immune System Diseases](#)
- [Infant](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Macular Degeneration](#)
- [Meningococcal Infections](#)
- [Myocardial Infarction](#)
- [Nephritis](#)
- [Obesity](#)
- [Peripheral Vascular Diseases](#)
- [Pre-Eclampsia](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pseudoxanthoma Elasticum](#)
- [Pulmonary Disease](#)
- [Purpura](#)
- [Recurrence](#)
- [Retinal Degeneration](#)
- [Retinal Diseases](#)
- [Retinal Drusen](#)

- [Retinal Neovascularization](#)
- [Retinopathy of Prematurity](#)
- [Spinocerebellar ataxia](#)
- [Staphylococcal Infections](#)
- [Stroke](#)
- [Systemic Inflammatory Response Syndrome](#)
- [Taste](#)
- [Urinary Bladder Neoplasms](#)
- [Venous Thrombosis](#)
- [Werner syndrome](#)
- [Wet Macular Degeneration](#)