

## CFH Protein, Human, Recombinant (His)

### General Information

Synonyms:	CFH; Complement factor H
Protein Construction:	Glu19-Leu449
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P08603-2
Molecular Weight:	50 KDa (reducing condition)
AA Sequence:	Glu19-Leu449

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of PBS, 20% Glycerol, 5% Trehalose, pH 7.4.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Complement Factor H (CFH) is a secreted protein which is a member of the regulators of complement activation family and is a complement control protein. It is expressed by the liver and secreted in plasma. Its principal function is to regulate the Alternative Pathway of the complement system, ensuring that the complement system is directed towards pathogens or other dangerous material and does not damage host tissue. Factor H regulates complement activation on self cells and surfaces by possessing both cofactor activity for the Factor I mediated C3b cleavage, and decay accelerating activity against the alternative pathway C3-convertase, C3bBb. Factor H exerts its protective action on self cells and self surfaces but not on the surfaces of bacteria or viruses, because it binds to glycosaminoglycans (GAGs) that are generally present on host cells but not, normally, on pathogen surfaces.

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