

## Complement factor H/CFH Protein, Mouse (HEK293, Fc)

<b>Cat. No.:</b>	HY-P74232
<b>Synonyms:</b>	Complement factor H; Protein beta-1-H; CFH
<b>Species:</b>	Mouse
<b>Source:</b>	HEK293
<b>Accession:</b>	NP_034018.2 (S875-V1252)
<b>Gene ID:</b>	12628
<b>Molecular Weight:</b>	80-94 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> S L P R C I E K I P   C S Q P P T I E H G   S I N L P R S S E E   R R D S I E S S S H E H G T T F S Y V C   D D G F R I P E E N   R I T C Y M G K W S   T P P R C V G L P C G P P P S I P L G T   V S L E L E S Y Q H   G E E V T Y H C S T   G F G I D G P A F I I C E G G K W S D P   P K C I K T D C D V   L P T V K N A I I R   G K S K K S Y R T G E Q V T F R C Q S P   Y Q M N G S D T V T   C V N S R W I G Q P   V C K D N S C V D P P H V P N A T I V T   R T K N K Y L H G D   R V R Y E C N K P L   E L F G Q V E V M C E N G I W T E K P K   C R D S T G K C G P   P P P I D N G D I T   S L S L P V Y E P L S S V E Y Q C Q K Y   Y L L K G K K T I T   C R N G K W S E P P   T C L H A C V I P E N I M E S H N I I L   K W R H T E K I Y S   H S G E D I E F G C   K Y G Y Y K A R D S P P F R T K C I N G   T I N Y P T C V </pre>
<b>Biological Activity</b>	Measured in a cell proliferation assay using A549 cells. The ED <sub>50</sub> for this effect is 28.04 ng/mL, corresponding to a specific activity is 3.57×10 <sup>4</sup> units/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized a 0.22 μm filtered solution of PBS, pH 7.4 (Normally trehalose is added as protectant before lyophilization. ) or 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

Complement Factor H (CFH) protein exhibits a multifaceted role, featuring complement component C3b binding activity and heparin binding activity. Operating upstream of various physiological processes, such as animal organ development, complement activation, and vasculature development, CFH is found in diverse cellular compartments, including axons, the external side of the plasma membrane, and neuronal cell bodies. Its expression spans across multiple structures, including the adrenal gland, bone, central nervous system, humerus cartilage condensation, and metanephros. This protein is implicated in various diseases, such as atypical hemolytic-uremic syndrome, eye diseases, lupus nephritis, and systemic lupus erythematosus, highlighting its critical involvement in health and disease. The expression pattern underscores its significant presence in tissues, particularly prominent in the liver during embryonic and adult stages, emphasizing its pivotal role in hepatic functions.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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