



Recombinant Mouse CFAH Protein

For Research Use Only

1. Basic Product Information

Catalog No.: REP51238

Size: 10ug, 100ug

Protein Name: Complement factor H (Protein beta-1-H)

Synonym: Cfh, Hf1

UniProt ID: P06909

UniProt Link: www.uniprot.org/uniprotkb/P06909/entry

Species Source: Mouse

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 1234 AA

Molecular Weight: 139 KD

Protein Tag: C-terminal His6

2. Amino Acid Sequence

MRLSARIWLILWTVCAAEDCKGPPPRENSEILSGSWSEQLYPEGTQATYKCRPGYRTLGTIVKVCK
NGKWVASNPSRICRKKPCGHPGDTFPGSFRLAVGSQFEFGAKVVYTCDDGYQLLGEIDYRECGAD
GWINDIPLCEVVKCLPVTLENGRIVSGAAETDQEYFGQVVRFECSNGFKIEGHKEIHCSENGLWS
NEKPRCVEILCTPPRVENGGINVKPVYKENERYHYKCKHGYVPKERGDAVCTGSGWSSQPFCEE
KRCSPPYILNGIYTPHRIIHRSDDEIRYECNYGFYPVTGSTVSKCTPTGWIPVPRCTLKPCFEPPQFKYG
RLYYEESLRPNFPVSIGNKYSYKCDNGFSPPSGYSWDYLRCTAQQWEPEVPCVRKCVFHYVEND
SAYWEKVYVQGQSLKVQCYNGYSLQNGQDTMTCTENGWSPPPKCIRIKTCSASDIHIDNGFLSESS
SIYALNRETSYRCKQGYVTNTGEISGSITCLQNGWSPQPSCIKSCDMPVFENSITKNTRTWFKLNDKL
DYECLVGFENEYKHTKGSITCTYYGWSDTPSCYERECVPTLDRKLVVSPRKEKYRVGDLLFESCH
SGHRVGPDSVQCYHFGWSPGFPTCKGQVASCAPPLEILNGEINGAKKVEYSHGEVVKYDCKPRFLL
KGPNIQCV DGNWTTLPVCIIEERTCGDIPELEHGS AKCSVPPYHHGDSVEFICEENFTMIGHGSVS
CISGKWTQLPKCVATDQLEKCRVLKSTGIEAIKPKLTEFTHNSTMDYKCRDKQEYERSICINGKWDPE
PNCTSKTSCPPPPQIPNTQVIETTVKYLDGEKLSVLCQDNYLTQDSEEMVCKDGRWQSLPRCIEKIP
CSQPPTIEHGSINLPRSSEERRDSIESSSHEHGTTFSYVCDDGFRIPEENRITCYMGKWSTPPRCVG
LPCGPPPSIPLGTVSLELESYQHGEVTVYHCSTGFGIDGPAFIICEGGKWS DPPKCIKTDCDVLPTVK
NAIIRGKSKKSYRTGEQVTFRCQSPYQMNGSDTVTCVNSRWIGQPVC KDNSCVDPPHVPNATIVTR
TKNKYLHGDRVRYECNKPLELFGQVEVMCENGIWTEKPKCRDSTGKCGPPPPIDNGDITSLSLPVYE
PLSSVEYQCQKYLLKGKKTITCRNGKWSEPPTCLHACVIPENIMESHNIILKWRHTEKIYSHSGEDIE
FGCKYGYKARDSPPFRTKCI NGTINYPTCV

3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

5. Product Description

This product is recombinant Complement factor H (Protein beta-1-H) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

Protein Function: Glycoprotein that plays an essential role in maintaining a well-balanced immune response by modulating complement activation. Acts as a soluble inhibitor of complement, where its binding to self markers such as glycan structures prevents complement activation and amplification on cell surfaces. Accelerates the decay of the complement alternative pathway (AP) C3 convertase C3bBb, thus preventing local formation of more C3b, the central player of the complement amplification loop. As a cofactor of the serine protease factor I, CFH also regulates proteolytic degradation of already-deposited C3b. In addition, mediates several cellular responses through interaction with specific receptors. For example, interacts with CR3/ITGAM receptor and thereby mediates the adhesion of human neutrophils to different pathogens. In turn, these pathogens are phagocytosed and destroyed.

Subcellular Localization: Secreted .

6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.