

Recombinant Human CFHR5 Protein, HIS-tagged

Cat. No. CFHR5-153H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CFHR5 fused with His tag at C-terminal was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of a small complement factor H (CFH) gene cluster on chromosome 1. Each member of this gene family contains multiple short consensus repeats (SCRs) typical of regulators of complement activation. The protein encoded by this gene has nine SCRs with the first two repeats having heparin binding properties, a region within repeats 5-7 having heparin binding and C reactive protein binding properties, and the C-terminal repeats being similar to a complement component 3 b (C3b) binding domain. This protein co-localizes with C3, binds C3b in a dose-dependent manner, and is recruited to tissues damaged by C-reactive protein. Allelic variations in this gene have been associated, but not causally linked, with two different forms of kidney disease: membranoproliferative glomerulonephritis type II (MPGNII) and hemolytic uraemic syndrome (HUS).
Form	Lyophilized from a 0.2 M filtered solution of 20mM PB, 150mM NaCl, pH7.4
Molecular Mass	63.5kD
AA Sequence	EGTLCDFPKIHGFLYDEEDYNPFSQVPTGEVFYYSCEYNFVSPSKSFWTRITCTEE GWSPTPKCLRMCSFPFVKNGHSESSGLIHLEGDTVQIICNTGYSLQNNEKNISCV

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GWSTPPICSFTKGECHVPILEANVDAQPKKESYKVGDLKFSCRKNLIRVGSDSVQC
YQFGWSPNFPTCKGQVRSCGPPPQLSNGEVKEIRKEEYGHNEVVEYDCNPNIING
PKKIQCVDGEWTTTLPTCVEQVKTCGYIPELEYGYVQPSVPPYQHGVSVVEVNCRNEY
AMIGNNMITCINGIWTELPVCVATHQLKRCKIAGVNIKTLLKLSGKEFNHNSRIRYRCS
DIFRYRHVSVCINGKWNPEVDCTEKREQFCPPPPQIPNAQNMTTTVNYQDGEKVAVL
CKENYLLPEAKEIVCKDGRWQSLPRCVESTAYCGPPPSINNGDTSFPLSVYPPGST
VTYRCQSFYKLQGSVTVTCTRNKQWSEPPRCLDPCVVSEENMNKNNIQLKWRNDGK
LYAKTGDAVEFQCKFPHKAMISSPPFRAICQEGKFEYPICEVDHHHHHH

Endotoxin

Endotoxin level is <0.1 ng/g of protein (<1EU/g).

Purity

>95% as determined by SDS-PAGE and Coomassie blue staining

Concentration

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name

CFHR5 complement factor H related 5 [Homo sapiens (human)]

Official Symbol

CFHR5

Synonyms

FHR5; CFHL5; FHR-5; complement factor H-related protein 5; factor H-related protein 5; complement factor H-related 5

Gene ID

81494

mRNA Refseq

NM_030787

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Protein Refseq	NP_110414
MIM	608593
UniProt ID	Q9BXR6

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