

Recombinant Human CFHR5, His-tagged

Cat. No. CFHR5-920H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human CFHR5 (Glu19Glu569) fused with 10His tag at C terminal, was expressed in Mouse NSO Cells.

Species Human

Source Mammalian Cells

Description The human complement factor H protein family consists of the complement and immune regulators factor H, the factor Hlike protein 1 and five factor H related proteins (FHR1 to 5). Members of this family are exclusively composed of individually folded protein domains, termed short consensus repeats (SCRs) or complement control modules. The genes of this family have been located in human chromosome 1q32, which is known as the regulator of complement activation (RCA) gene clusters. FHR5 has been identified initially as a universal component of complement deposits, and detected in glomerular immune deposit. The pattern of deposits is similar to other complement components, suggesting that FHR5 may play a role in complement activation and regulation. It is synthesized in the liver and consists of 9 SCRs. Its biological function is not understood fully. FHR5 exhibits similar characteristics as those of factor H in heparin binding, CRP binding, and lipoprotein association. Weak factor Independent cofactor activity for C3b cleavage has also been observed.

Purity >90% as determined by SDS-PAGE

PredictedN terminal Glu 19

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MolecularMass	Predicted molecular mass of this protein is 64 KDa. It migrates as an approximately 73 KDa band in SDS-PAGE under reducing conditions.
Formulation	Lyophilized from a 0.2 µm filtered solution in Tris and NaCl.
Endotoxin	<1.0 EU per 1 µg of the protein as determined by the LAL method.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.
Activity	Measured by its ability to inhibit the binding of biotinylated Recombinant Human Complement Factor Hrelated 5/CFHR5 to immobilized Recombinant Human C-Reactive Protein/CRP.
Storage	1 year from date of receipt, 20 to 70 °C as supplied. Avoid repeated Freeze/thaw cycles.
OfficialSymbol	CFHR5

GENE INFORMATION

Gene Name	CFHR5 complement factor H-related 5 [Homo sapiens]
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
Protein Refseq	NP_110414

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MIM	608593
UniProt ID	Q9BXR6
Chromosome Location	1q31.3

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