

## Recombinant Human Complement Factor H-related Protein 1/CFHR1(C-His)

Catalog No: BP164 (C585)

<b>Description</b>	Recombinant Human Complement Factor H-Related 1 is produced by our Mammalian expression system and the target gene encoding Glu19-Arg330 is expressed with a 6His tag at the C-terminus.
<b>Expression System</b>	Human cells
<b>Alternative name</b>	Complement Factor H-Related Protein 1; FHR-1; H Factor-Like Protein 1; H-Factor-Like 1; H36;CFHR1; CFHL; CFHL1; CFHL1P; CFHR1P; FHR1; HFL1; HFL2
<b>Accession No.</b>	Q03591
<b>Predicted Molecular Weight</b>	36.5kDa
<b>Apparent Molecular Weight</b>	35-45kDa, reducing conditions.
<b>Quality Control</b>	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, 0.01%Tween 80, pH 7.4
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
<b>Background</b>	Complement factor H-related protein 1 (CFHR1) is a secreted protein that is a member of the complement factor H protein family. CFHR1 is expressed by hepatocytes and exists as two differentially glycosylated isoforms. The human complement factor H protein family consists of the complement and immune regulators factor H, the factor H-like protein 1(FHL-1) and five factor H-related proteins (CFHR-1 to -5). Members of the H-related protein family are exclusively composed of individually folded protein domains, termed short consensus repeats (SCRs) or complement control modules. CFHR1 binds to Pseudomonas aeruginosa elongation factor Tuf together with plasminogen, which is proteolytically activated. CFHR1 might mediate complement regulation. It can associate with lipoproteins and may play a role in lipid metabolism. A common CFHR1/CFHR3 genetic deletion has been recognized as being protective against age-related macular degeneration and nephropathy.

### SDS-PAGE

