PRODUCT INFORMATION

Target	CFI
Synonyms	FI; IF; KAF; AHUS3; ARMD13; C3BINA; C3b-INA
Description	Recombinant human CFI Protein with C-terminal 6×His tag
Delivery	In Stock
Uniprot ID	P05156
Expression Host	HEK293
Tag	C-6×His tag
Molecular Characterization	CFI(Lys19-Val583) 6×His tag
Molecular Weight	The protein has a predicted molecular mass of 64.3 kDa after removal of the signal peptide. The apparent molecular mass of CFI-His is approximately 70-100 kDa due to glycosylation.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).Lyophilized proteins are shipped at ambient temperature.
Background	This gene encodes a serine proteinase that is essential for regulating the complement cascade. The encoded preproprotein is cleaved to produce both heavy and light chains, which are linked by disulfide bonds to form a heterodimeric glycoprotein. This heterodimer can cleave and inactivate the complement components C4b and C3b, and it prevents the assembly of the C3 and C5 convertase enzymes. Defects in this gene cause complement factor I deficiency, an autosomal recessive disease associated with a susceptibility to pyogenic infections. Mutations in this gene have been associated with a predisposition to atypical hemolytic uremic syndrome, a disease characterized by acute renal failure, microangiopathic hemolytic anemia and thrombocytopenia. Primary glomerulonephritis with immune deposits and age-related macular degeneration are other conditions associated with mutations of this gene. [provided by RefSeq, Dec 2015]
Usage	Research use only
Conjugate	Unconjugated

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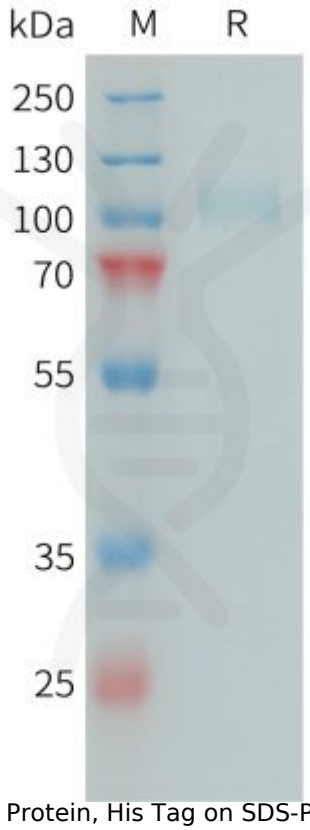


Figure 1. Human CFI Protein, His Tag on SDS-PAGE under reducing condition.

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