Recombinant Human CFI protein, His-tagged

Cat. No. CFI-290H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CFI(Ile340~Val583) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ile340~Val583
Description	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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300
Molecular Mass	29.1kDa

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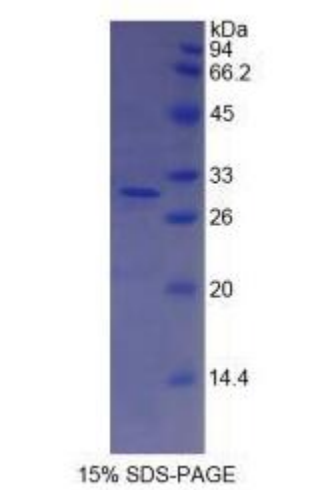
Endotoxin	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Purity	> 95%
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	CFI complement factor I [Homo sapiens]
Official Symbol	CFI
Synonyms	CFI; complement factor I; I factor (complement) , IF; C3b INA; C3b inactivator; FI; KAF; Konglutinogen activating factor; C3b-inactivator; C3B/C4B inactivator; complement component I; light chain of factor I; Konglutinogen-activating factor; complement factor I heavy chain; complement control protein factor I; IF; AHUS3; C3BINA; C3b-INA;
Gene ID	3426
mRNA Refseq	NM_000204

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Protein Refseq	NP_000195
MIM	217030
UniProt ID	P05156
Chromosome Location	4q25
Pathway	Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Regulation of Complement cascade, organism-specific biosystem; Staphylococcus aureus infection, organism-specific biosystem;
Function	peptidase activity; scavenger receptor activity; serine-type endopeptidase activity;



15% SDS-PAGE

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