Datasheet for ABIN7538205

Complement Factor I Protein (CFI) (AA 19-583) (His tag)

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Overview

Quantity:	50 µg
Target:	Complement Factor I (CFI)
Protein Characteristics:	AA 19-583
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Complement Factor I protein is labelled with His tag.

Product Details

Purpose:	Recombinant human CFI Protein with C-terminal 6xHis tag
Specificity:	CFI (Lys19-Val583) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 85 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	Complement Factor I (CFI)
Alternative Name:	CFI (CFI Products)
Background:	This gene encodes a serine proteinase that is essential for regulating the complement cascade.

Target Details

	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]
Molecular Weight:	predicted molecular mass of 64.3 kDa after removal of the signal peptide. The apparent molecular mass of CFI-His is 70-100 kDa due to glycosylation.
UniProt:	P05156
Pathways:	Complement System

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	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.
Expiry Date:	12 months