Recombinant Human Complement factor I (CFI)

Product Code	CSB-YP005279HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P05156
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	KV TYTSQEDLVE KKCLAKKYTH LSCDKVFCQP WQRCIEGTCV CKLPYQCPKN GTAVCATNRR SFPTYCQQKS LECLHPGTKF LNNGTCTAEG KFSVSLKHGN TDSEGIVEVK LVDQDKTMFI CKSSWSMREA NVACLDLGFQ QGADTQRRFK LSDLSINSTE CLHVHCRGLE TSLAECTFTK RRTMGYQDFA DVVCYTQKAD SPMDDFFQCV NGKYISQMKA CDGINDCGDQ SDELCCKACQ GKGFHCKSGV CIPSQYQCNG EVDCITGEDE VGCAGFASVT QEETEILTAD MDAERRRIKS LLPKLSCGVK NRMHIRRKRI VGGKRAQLGD LPWQVAIKDA SGITCGGIYI GGCWILTAAH CLRASKTHRY QIWTTVVDWI HPDLKRIVIE YVDRIIFHEN YNAGTYQNDI ALIEMKKDGN KKDCELPRSI PACVPWSPYL FQPNDTCIVS GWGREKDNER VFSLQWGEVK LISNCSKFYG NRFYEKEMEC AGTYDGSIDA CKGDSGGPLV CMDANNVTYV WGVVSWGENC GKPEFPGVYT KVANYFDWIS YHVGRPFISQ YNV
Source	Yeast
Target Names	CFI
Protein Names	Recommended name: Complement factor I EC= 3.4.21.45 Alternative name(s): C3B/C4B inactivator Cleaved into the following 2 chains: 1. Complement factor I heavy chain 2. Complement factor I light chain
Expression Region	19-583
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	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 uraemic syndrome, a disease characterized by acute renal failure, microangiopathic hemolytic anemia and thrombocytopenia. Primary glomerulonephritis with immmune deposits is another condition associated with mutation of this gene.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.