

Recombinant Human CFP, His-tagged

Cat. No. CFP-252H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CFP, 28-469aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	28-469aa
Description	CFP is a plasma glycoprotein that positively regulates the alternative complement pathway of the innate immune system. This protein binds to many microbial surfaces and apoptotic cells and stabilizes the C3- and C5-convertase enzyme complexes in a feedback loop that ultimately leads to formation of the membrane attack complex and lysis of the target cell. Mutations in this gene result in two forms of properdin deficiency, which results in high susceptibility to meningococcal infections. Multiple alternatively spliced variants, encoding the same protein, have been identified. Recombinant human CFP protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	50.9 kDa (465aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSDPVLCTF QYEESGKCK GLLGGGVSV DCCLNTAFAY QKRSGGLCQP CRSPRWLSLWS TWAPCSVTCS EGSQRLRYRRC VGWNGQCSCGK VAPGTLEWQL QACEDQQCCP EMGGWSGWGP WEPCSVTCSK

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GTRTRRRACN HPAPKCGGHC PGQAQSEAC DTQQVCPTHG AWATWGPWTP
 CSASCHGGPH EPKETRSRKC SAPEPSQKPP GKPCPGLAYE QRRCTGLPPC
 PVAGGWGPWG PVSPCPVTCG LGQTMEQRTC NHPVPQHGGP FCAGDATRTH
 ICNTAVPCPV DGEWDSWGEW SPCIRRNMKIS ISCQEIPGQQ SRGRTCRGRK
 FDGHRACAGQQ QDIRHCYSIQ HCPLKGSWSE WSTWGLCMPP CGPNPTRARQ
 RLCTPLLPKY PPTVSMVEGQ GEKNVTFWGR PLPRCEELQG QKLVVEEKRP
 CLHVPACKDP EEEEE

Purity >80% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name CFP complement factor properdin [Homo sapiens]

Official Symbol CFP

Synonyms CFP; complement factor properdin; PFC, properdin P factor, complement; properdin; complement factor P; properdin P factor, complement; BFD; PFC; PFD; PROPERDIN;

Gene ID 5199

mRNA Refseq NM_001145252

Protein Refseq NP_001138724

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MIM	300383
UniProt ID	P27918
Chromosome Location	Xp11.4
Pathway	Herpes simplex infection, organism-specific biosystem; Herpes simplex infection, conserved biosystem;

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