

CFP, 28-469aa, Human, His tag, E.coli

Cat.NO.: TP01595

3th Edition

Synonyms: Complement factor properdin, BFD, PFC, PFD, PROPERDIN

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 Weight: 50.9 kDa (465aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSDPVLCTQYEESSGKCKGLLGGGVSVEDCCLNTAFAYQKRSGGLCQPCRS
PRWSLWSTWAPCSVTCSEGSQRLRYRRCVWNGQCSGKVAPGTLEWQLQACEDQCCPEMGGWSGWGPWEP
CSVTCCKGTRTRRRACNHPAPKCGGHCPGQAQSEACDTQQVCPTHGAWATWGPWTPCSASCHGGPHEPKET
RSRKCSAPEPSQKPPGKPCPGLAYEQRRCTGLPPCPVAGGWGPWGPVSPCPVTCGLGQTMEQRTC�HPVPQH
GGPFCAGDATRTHICNTAVPCPVDGEWDSWGEWSPCIRRNMKISISCQEIPGQQSRGRTCRGRKFDGHRACAGQQ
QDIRHCYSIQHCPLKGSWSEWSTWGLCMPPCGPNPTRARQLCTPLLPKYPTVSMVEGQGEKNVTFWGRPLPR
CEELQGQKLVVEEKRPCLHVPACKDPEEEEL

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

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