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AR51565PU-N Human Properdin (28-469, His-tag) - Purified

Alternate names: CFP, Complement factor P, PFC

Quantity: 0.5 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: P27918

NCBI: NP_002612

GeneID: 5199

Species: Human

Source: E. coli

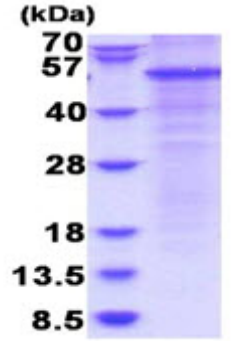
Format:
State: Liquid purified protein
Purity: >80% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description: Recombinant human CFP protein, fused to His-tag at N-terminus, was expressed in E.coli.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSDPVLCFT QYEESSGKCK GLLGGGVSVE DCCLNTAFAY
QKRSGGLCQP CRSPRWSLWS TWAPCSVTCS EGSQLRYRRC VGWNGQCSGK VAPGTLEWQL
QACEDQQCCP EMGGWSGWGP WEPCSVTCSK GTRTRRRACN HPAPKCGGHC PGQAQESEAC
DTQQVCPTHG AWATWGPWTP CSASCHGGPH EPKETRSRKC SAPEPSQKPP GKPCPGLAYE
QRRCTGLPPC PVAGGWGPWG PVSPCPVTCG LGQTMEQRTC NHPVPQHGGP FCAGDATRTH
ICNTAVPCPV DGEWDSWGEW SPCIRRNMKS ISCQEIPGQQ SRGRTCRGRK FDGHRCAGQQ
QDIRHCYSIQ HCPLKGSWSE WSTWGLCMPP CGPNPTRARQ RLCTPLLPKY PPTVSMVEGQ
GEKNVTFWGR PLPRCEELQG QKLVVEEKRP CLHVPACKDP EEEEL
Molecular weight: 50.9 kDa (465aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: Hartmann S., et al. (2000) J. Biol. Chem. 275:28569-28574 Liu T., et al. (2005) J. Proteome Res. 4:2070-2080

Pictures:



15% SDS-PAGE (3ug)