

Recombinant human Properdin protein

Catalog Number: ATGP2745

PRODUCT INFORMATION

Expression system

E.coli

Domain

28-469aa

UniProt No.

P27918

NCBI Accession No.

NP_002612

Alternative Names

Complement factor properdin, BFD, PFC, PFD, PROPERDIN

PRODUCT SPECIFICATION

Molecular Weight

50.9 kDa (465aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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expressed in *E. coli*.

Amino acid Sequence

MGSSHHHHHHH SSSLVPRGSH MGS DPVLCFT QYEESSGKCK GLLGGGVSV E DCCLNTAFAY QKRSGGLCQP
CRSPRWSLWS TWAPCSVTCS EGSQLR YRRC VGWNGQCSGK VAPGTLEWQL QACEDQCCP EMGGWSGWGP
WEPCSVTCSK GTRTRRRACN HPAPKCGGHC PGQAQSEAC DTQQVCPTHG AWATWGPWTP CSASCHGGPH
EPKETRSRKC SAPEPSQKPP GKPCPGLAYE QRRCTGLPPC PVAGGWGPWG PVSPCPVTCG LGQTMEQRTC NHPVPQHGGP
FCAGDATHRTH ICNTAVPCPV DGEWDSWGEW SPCIRRMKS ISCQEIPGQQ SRGRTCRGRK FDGHR CAGQQ QDIRHCYSIQ
HCPLKGSWSE WSTWGLCMPP CGPNPTRARQ RLCTPLLPKY PPTVSMVEGQ GEKNVTFWGR PLPRCEELQG QKLVVEEKRP
CLHVPACKDP EEEEL

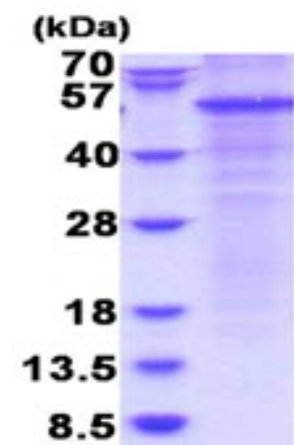
General References

Hartmann S., et al. (2000) *J. Biol. Chem.* 275:28569-28574

Liu T., et al. (2005) *J. Proteome Res.* 4:2070-2080

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.