

## Recombinant human CFB-Bb, His-tagged

**Cat. No.** CFB-Bb-2479H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CFB-Bb protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	CFB encodes complement factor B, a component of the alternative pathway of complement activation. Factor B circulates in the blood as a single chain polypeptide. Upon activation of the alternative pathway, it is cleaved by complement factor D yielding the noncatalytic chain Ba and the catalytic subunit Bb. The active subunit Bb is a serine protease which associates with C3b to form the alternative pathway C3 convertase. Bb is involved in the proliferation of preactivated B lymphocytes, while Ba inhibits their proliferation.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol
<b>Molecular Mass</b>	59.4kDa (528aa)
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSKIVLDPS GSMNIYLVLD GSDSIGASNF TGAKKCLVNL IEKVASYGVK PRYGLVTYAT YPKIWWKVSEADSSNADWVT KQLNEINYED HKLKSGTNTK KALQAVYSMM SWPDDVPPEG WNRTRHVIL MTDGLHNMGG DPITVIDEIR DLLYIGKDRK NPREDYLDVY VFGVGPLVNQ VNINALASKK DNEQHVFVKV DMENLEDVfy QMIDESQSLS LCGMVWEHRK GTDYHKQPWQ AKISVIRPSKGHESCMGAVV SEYFVLTA AH CFTVDDKEHS

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IKVSVGGEKR DLEIEVVLFH PNYNINGKKE AGIPEFYDYD VALIKLKNKL  
 KYGQTIRPIC LPCTEGTTRA LRLPPTTTCQ QQKEELPAQ DIKALFVSEE  
 EKKLTRKEVY IKNGDKKGSC ERDAQYAPGY DKVKDISEVV  
 TPRFLCTGGVSPYADPNTCR GDSGGPLIVH KRSRFIQVGV ISWGVVDVCK  
 NQKRQKQVPA HARDFHINLF QVLPWLKEKL QDEDLGFL

**Purity** >85% by SDS - PAGE

**Applications** 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** 1.0 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** CFB complement factor B [ Homo sapiens ]

**Official Symbol** CFB

**Synonyms** CFB; complement factor B; B factor, properdin , BF, BFD; H2 Bf; C3 proactivator; C3/C5 convertase; C3 proaccelerator; properdin factor B; B-factor, properdin; glycine-rich beta glycoprotein; glycine-rich beta-glycoprotein; BF; FB; BFD; GBG; CFAB; PBF2; AHUS4; FBI12; H2-Bf; FLJ54899;

**Gene ID** [629](#)

**mRNA Refseq** [NM\\_001710](#)

**Protein Refseq** [NP\\_001701](#)

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<b>UniProt ID</b>	P00751
<b>Chromosome Location</b>	6p21.3
<b>Pathway</b>	Activation of C3 and C5, organism-specific biosystem; Alternative complement activation, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; Immune System, organism-specific biosystem; Initial triggering of complement, organism-specific biosystem;
<b>Function</b>	complement binding; peptidase activity; serine-type endopeptidase activity;

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