

# Product information

## CFB, 26-259aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3540

**Full name:** Complement factor B

**NCBI Accession No.:** NP\_001701

**Synonyms:** CFB, AHUS4, ARMD14, BF, BFD, CFAB, CFBD, FB, FBI12, GBG, H2-Bf, PBF2

**Description:** CFB, also known as complement factor B, is 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. Recombinant human CFB protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:** Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

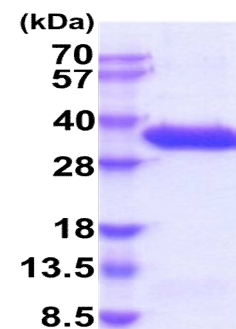
**Molecular Weight:** 27.3kDa (245aa)  
28-40kDa (SDS-PAGE under reducing conditions.)

**Predicted N terminal:** Ala

**Purity:** > 95% by SDS - PAGE.

**Concentration:** 0.5mg/ml (determined by Absorbance at 280nm)

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



15% SDS-PAGE (3µg)

### Sequences of amino acids:

ADPEFTPWSL ARPQGSCSLE GVEIKGGSFR LLQEGQALEY VCPSGFYPYP VQTRTCRSTG SWSTLKTQDQ KTVRKAECRA IHCPRPHDFE  
NGEYWPRSPY YNVSDEISFH CYDGYTLRGS ANRTCQVNGR WSGQTAICDN GAGYCSNPGI PIGTRKVGSO YRLEDSVITYH CSRGLTLRGS  
QRRTCQEGGS WSGTEPSCQD SFMYDTPQEV AEAFLSSLTE TIEGVDAEDG HGPGEQQKPH HHHHH

### General references:

Francis PJ., *et al.* (2009) *J Med Genet.* 46:300-307.

Schwaeble W., *et al* (1993). *Immunobiology* 188:221-232.

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**