

CFB, 26-259aa, Human, His-tag, Baculovirus

Cat.NO.: TP01589

3th Edition

Synonyms: Complement factor B, 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.)

Sequences:

ADPEFTPWSLARPQGSCSLEGVEIKGGSFRLQEGQALEYVCPSGFYYPVQTRTCRSTGWSLTKTQDQKTVRK
AECRAIHCPRPDHFENGEYWPRSPYYNVSDSIFHCYDGYTLRGSANRTCQVNGRWSGQTAICDNGAGYCSNPG
IPIGTRKVGSGYRLSDSVTYHCSRGLTLRGSQRRTCQEGGSWSGTEPSCQDSFMYDTPQEVAEAFSLSTETIEGV
DAEDGHGPGEQQKRHHHHHH

Purity: > 95% by HPLC

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

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.