

CFB-Bb, 260-764aa, Human, His tag, E.coli

Cat.NO.: TP01590

3th Edition

Synonyms: complement factor B, AHUS4, BF, BFD, CFAB, FB, FBI12, GBG, H2-Bf, PBF2

Description: 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. Recombinant human CFB-Bb protein, fused to His-tag at N-terminus, was expressed in E.coli .

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M UREA, 10% glycerol

Molecular Weight: 59.4kDa (528aa)

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSKIVLDPSGSMNIYLVLDGSDSIGASNFTGAKKCLVNIEKVASYGVKPRYGLV
TYATYPKIWVKVSEADSSNADWVTKQLNEINYEDHKLKSGTNTKKALQAVYSMMSPDDVPPEGWNRTRHVIILM
TDGLHNMGGDPITVIDEIRDLLYIGKDRKNPREDYLDVYVFGVGPLVNQVNINALASKKDNEQHVFKVKDMENLEDV
FYQMIDESQSLSLCGMVWEHRKGTDYHKQPWQAKISVIRPSKGHESCMGAVVSEYFVLTAHCFTVDDKEHSIKV
SVGGEKRDLEIEVVLFPNYNINGKKEAGIPEFYDYDVALIKLKNKLKYGQTIRPICLPCTEGTTRALRLPPTTTCQQQ
KEELLPAQDIKALFVSEEEKLTRKEVYIKNGDKKGSCERDAQYAPGYDKVKDISEVVTPRFLCTGGVSPYADPNTC
RGDSGGPLIVHKRSRFIQVGVISWGVVDVCKNQKRQKQVPAHARDFHINLFQVLPWLKEKLQDEDLGFL

Purity: > 95% by HPLC

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

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.