Recombinant human Complement Factor B protein

Catalog Number: ATGP3540

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
26-259aa

UniProt No.
P00751

NCBI Accession No.
NP_001701.2

Alternative Names
Complement factor B, CFB, AHUS4, ARMD14, BF, BFD, CFAB, CFBD, FB, FBI12, GBG, H2-Bf, PBF2

PRODUCT SPECIFICATION

Molecular Weight
27.3 kDa (245aa)

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

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

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
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

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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.

Amino acid Sequence

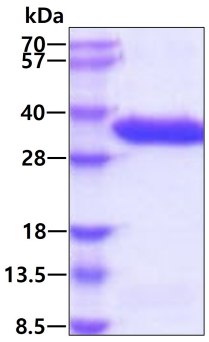
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General References

Francis PJ., et al. (2009) J Med Genet. 46:300-307.
Schwaeble W., et al (1993). Immunobiology 188:221-232.

DATA

SDS-PAGE



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