

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

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

Recombinant human Complement Factor B protein

Catalog Number: ATGP3540

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

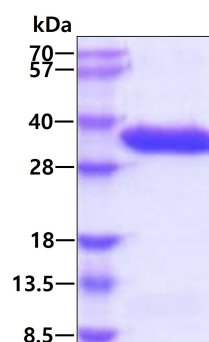
<ADPEF>TPWSL ARPQSGSCSLE GVEIKGGSFR LLQEGQALEY VCPSTGFYPYP VQTRTCRSTG SWSTLKTQDQ
KTVRKAECRA IHCPRPHDFE NGEYWPRSPY YNVSDEISFH CYDGYTLRGS ANRTCQVNGR WSGQTAICDN GAGYCSNPGI
PIGTRKVGVSQ YRLEDSVTYH CSRGLTLRGS QRRTCQEGGS WSGTEPSCQD SFMYDTPQEV AEAFLSSLTE TIEGVDAEDG
HGPGEQQKR<H HHHHH>

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.