

Recombinant human Complement Factor B protein

Catalog Number: ATGP3903

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

260-764aa

UniProt No.

P00751

NCBI Accession No.

NP_001701

Alternative Names

CFB, C3/C5 convertase, Glycine-rich beta glycoprotein, GBG, PBF2, Properdin factor B, BF, BFD, AHUS4, ARMD14, CFAB, CFBD, FB, FBI12, GBG, H2-Bf

PRODUCT SPECIFICATION

Molecular Weight

58.1 kDa (514aa)

Concentration

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

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity

> 90% 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

Complement factor B, also known as CFB, 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.

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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 Complement factor B protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

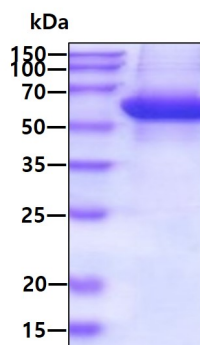
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NPREDYLDVY VFGVGPLVNQ VNINALASKK DNEQHVFKVK DMENLEDVFY QMIDESQSLS LCGMVWEHRK
GTDYHKQPWQ AKISVIRPSK GHESCMGAVV SEYFVLTAAH CFTVDDKEHS IKVSVGGEKR DLEIEVVLFFH PNYNINGKKE
AGIPEFYDYD VALIKLKNKL KYGQTIRPIC LPCTEGTTRA LRLPPTTTCQ QQKEELLPAQ DIKALFVSEE EKKLTRKEVY
IKNGDKKGGSC ERDAQYAPGY DKVKDISEVV TPRFLCTGGV SPYADPNTCR GDSGGPLIVH KRSRFIQVGV ISWGVVDVCK
NQKRQKQVPA HARDFHINLF QVLPWLKEKL QDEDLGFL<HH HHHH>

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.