

Recombinant human C4BPB protein

Catalog Number: ATGP1664

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-252aa

UniProt No.

P20851

NCBI Accession No.

NP_000707

Alternative Names

Complement component 4 binding protein beta, C4BP, C4b-binding protein beta chain

PRODUCT SPECIFICATION

Molecular Weight

29kDa (260aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.15M NaCl

Purity

> 90% by SDS-PAGE

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

C4BPB is a member of a superfamily of proteins composed predominantly of tandemly arrayed short consensus repeats of approximately 60 amino acids. A single, unique beta-chain of this protein assembles with seven identical alpha-chains into the predominant isoform of C4b-binding protein, a multimeric protein that controls activation of the complement cascade through the classical pathway. C4b-binding protein has a regulatory role in the coagulation system also, mediated through the beta-chain binding of protein S, a vitamin K-dependent protein that serves as a cofactor of activated protein C. Recombinant human C4BPB protein, fused to His-tag at

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N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSHM>SDAEH CEPLPPVDNS IFVAKEVEGQ ILGTYVCIKG YHLVGKKTFL
CNASKEWDNT TTECRLGHCP DPVLVNGEFS SSGPVNVSDK ITFMCNDHYI LKGSNRSQCL EDHTWAPPPF ICKSRDCDPP
GNPVHGYFEG NNFTLGSTIS YYCEDRYLV GVQEQQCVDG EWSSALPVCK LIQEAPKPEC EKALLAFQES KNLCEAMENF
MQLKESGMT MEELKYSLEL KKAELKAKLL

General References

Carlsson,S.et al. (2010) J. Biol. Chem. 285 (42), 32038-32046

Buil,A., et al. (2010) Blood 115 (23), 4644-4650

DATA

SDS-PAGE

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

