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**Product Data Sheet**


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Product Name: C4BPB Human  
 Cat. No.: GP22939  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	C4b-binding protein beta chain; C4BPB; C4BP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMSDAEH CPELPPVDNS IFVAKEVEGQ ILGTYVCIKG YHLVGKKTFL CNASKEWDNT TTECRLGHCP DPVLVNGEFS SSGPVNVSDK ITFMCNDHYI LKGSNRSQCL EDHTWAPFP ICKSRDCDPP GNPVHGYFEG NNFTLGSTIS YYCEDRYLV GVQEQQCVDG EWSSALPVCK LIQEAPKPEC EKALLAFQES KNLCEAMENF MQQLKESGMT MEELKYSLEL KKAELKAKLL.		
Formulation	C4BPB protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0) and 10% glycerol and 0.15M NaCl.		

**Introduction**

Complement Component 4 Binding Protein, Beta (C4BPB) belongs to a superfamily of proteins composed primarily of tandemly arrayed short consensus repeats of approximately 60 amino acids. C4BPB has a regulatory role in the coagulation system also, mediated via the beta-chain binding of protein S, a vitamin K-dependent protein which functions as a cofactor of activated protein C. A single, unique beta-chain of the C4BPB assembles with 7 identical alpha-chains into the principal isoform of C4BPB, which is a multimeric protein that controls activation of the complement cascade via the classical pathway. C4BPB binds as a cofactor to C3b/C4b inactivator (C3bINA), which subsequently hydrolyzes the complement fragment C4b. In addition, C4BPB accelerates the degradation of the C4bC2a complex (C3 convertase) by detaching the complement fragment C2a. Furthermore, C4BPB interacts with anticoagulant protein S and with serum amyloid P component.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

C4BPB Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 260 amino acids (18-252 a.a) and having a molecular mass of 29kDa. C4BPB is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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