



Recombinant Human C4b-binding protein alpha chain (C4BPA)

Product Code	CSB-MP003951HU
Relevance	Controls the classical pathway of complement activation. It binds as a cofactor to C3b/C4b inactivator (C3bINA), which then hydrolyzes the complement fragment C4b. It also accelerates the degradation of the C4bC2a complex (C3 convertase) by dissociating the complement fragment C2a. Alpha chain binds C4b. It interacts also with anticoagulant protein S and with serum amyloid P component.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P04003
Alias	Proline-rich protein Short name: PRP
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	<p> NCGPPPTLSFAAPMDITLTETRFKTGTTLKYTCLPGYVRSBSTQTLTCNSDGE WYNTFCIYKRCRHPGELRNGQVEIKTDLSFGSQIEFSCSEGGFLIGSTTSRCE VQDRGVGWSHPLPQCEIVKCKPPPDIRNGRHSGEENFYAYGFSVTYSCDPRF SLLGHASISCTVENETIGVWRPSPPTCEKITCRKPDVSHGEMVSGFGPIYNYKD TIVFKCQKGFVLRGSSVIHCDADSKWNPSPPACEPNSCINLPDIPHASWETYP RPTKEDVYVVGTVLRYRCHPGYKPTTDEPTTVICQKNLRWTPYQGCEALCCP EPKLNNGEITQHRKSRPANHCVYFYGDEISFSCHETSRSFAICQGDGTWSPRT PSCGDICNFPPKIAHGHYKQSSYSFFKEEIIYECDKGYILVGQAKLSCSYSHW SAPAPQCKALCRKPELVNGLSVDKDQYVEPENVTIQCDSGYGVVGPQSITC SGNRTWYPEVPKCEWETPEGCEQVLTGKRLMQCLPNPEDVKMALEVYKLSL EIEQLELQRDSARQSTLDKEL </p>
Research Area	Immunology
Source	Mammalian cell
Target Names	C4BPA
Protein Names	Recommended name: C4b-binding protein alpha chain Short name= C4bp Alternative name(s): Proline-rich protein Short name= PRP
Expression Region	49-597aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.

**Protein Length**

Full Length of Mature Protein

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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