



# Recombinant Human C4b-binding protein alpha chain (C4BPA)

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|--------------------------|--|
| <b>Product Code</b>      | CSB-EP003951HU   |
| <b>Relevance</b>         | 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.   |
| <b>Storage</b>           | 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.  |
| <b>Uniprot No.</b>       | P04003   |
| <b>Alias</b>             | Proline-rich protein Short name: PRP   |
| <b>Product Type</b>      | Recombinant Protein  |
| <b>Immunogen Species</b> | Homo sapiens (Human)   |
| <b>Purity</b>            | ≥ 90% as determined by SDS-PAGE.   |
| <b>Sequence</b>          | <p>           NCGPPPTLSFAAPMDITLTETRFKTGTTLKYTCLPGYVRSBSTQTLTCNSDGE<br/>           WYNTFCIYKRCRHPGELRNGQVEIKTDLSFGSQIEFSCSEGGFLIGSTTSRCE<br/>           VQDRGVGWSHPLPQCEIVKCKPPDIRNGRHSGEENFYAYGFSVTYSCDPRF<br/>           SLLGHASISCTVENETIGVWRPSPPTCEKITCRKPDVSHGEMVSGFGPIYNYKD<br/>           TIVFKCQKGFVLRGSSVIHCDADSKWNPSPPACEPNSCINLPDIPHASWETYP<br/>           RPTKEDVYVVGTVLRYRCHPGYKPTTDEPTTVICQKNLRWTPYQGCEALCCP<br/>           EPKLNNGEITQHRKSRPANHCVYFYGDEISFSCHETSRSFAICQGDGTWSPRT<br/>           PSCGDICNFPPKIAHGHYKQSSYSFFKEEIIYECDKGYILVGQAKLSCSYSHW<br/>           SAPAPQCKALCRKPELVNGLSVDKDQYVEPENVTIQCDSGYGVVGPQSITC<br/>           SGNRTWYPEVPKCEWETPEGCEQVLTGKRLMQCLPNPEDVKMALEVYKLSL<br/>           EIEQLELQRDSARQSTLDKEL         </p> |
| <b>Research Area</b>     | Immunology   |
| <b>Source</b>            | E.coli   |
| <b>Target Names</b>      | C4BPA  |
| <b>Protein Names</b>     | Recommended name: C4b-binding protein alpha chain Short name= C4bp<br>Alternative name(s): Proline-rich protein Short name= PRP  |
| <b>Expression Region</b> | 49-597aa   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  |
| <b>Tag Info</b>          | 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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