



# Recombinant Rabbit Coagulation factor IX (F9)

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| <b>Product Code</b>      | CSB-EP007936RB-B  |
| <b>Storage</b>           | Store at -20°C, for extended storage, conserve at -20°C or -80°C.   |
| <b>Uniprot No.</b>       | P16292  |
| <b>Product Type</b>      | Recombinant Protein   |
| <b>Immunogen Species</b> | Oryctolagus cuniculus (Rabbit)  |
| <b>Purity</b>            | ≥85% (SDS-PAGE)   |
| <b>Sequence</b>          | GVSVSHASKK ITRATTIFSN TEYENFTEAE TIRGNVTQRS QSSDDFTRIV<br>GGENAKPGQF PWQVLLNGKV EAFCGGSIIN EKWVVTAHC IKPDDNITVV<br>AGEYNIQETE NTEQKRNVR IIPYHKYNAT INKYNHDIAL LELDKPLTLN<br>SYVTPICIAN REYTNIFLNF GSGYVSGWGR VFNRGRQASI LQYLRVPFVD<br>RATCLRSTKF TIYNNMFCAG FDVGGKDSCE GDSGGPHVTE VEGTSFLTGI<br>ISWGEECAIK GKYGVYTRVS WYVNW   |
| <b>Source</b>            | E.coli  |
| <b>Target Names</b>      | F9  |
| <b>Protein Names</b>     | Recommended name: Coagulation factor IX EC= 3.4.21.22 Alternative name(s):<br>Christmas factor  |
| <b>Expression Region</b> | 1-275   |
| <b>Notes</b>             | Repeated freezing and thawing is not recommended. Store working aliquots at<br>4°C for up to one week.  |
| <b>Tag Info</b>          | Tag type will be determined during the manufacturing process.   |
| <b>Protein Length</b>    | Full length protein   |
| <b>Target Details</b>    | This gene encodes vitamin K-dependent coagulation factor IX that circulates in<br>the blood as an inactive zymogen. This factor is converted to an active form by<br>factor XIa, which excises the activation peptide and thus generates a heavy<br>chain and a light chain held together by one or more disulfide bonds. The role of<br>this activated factor IX in the blood coagulation cascade is to activate factor X to<br>its active form through interactions with Ca <sup>2+</sup> ions, membrane phospholipids,<br>and factor VIII. Alterations of this gene, including point mutations, insertions and<br>deletions, cause factor IX deficiency, which is a recessive X-linked disorder, also<br>called hemophilia B or Christmas disease. |
| <b>Reconstitution</b>    | We recommend that this vial be briefly centrifuged prior to opening to bring the<br>contents to the bottom. Please reconstitute protein in deionized sterile water to a<br>concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final<br>concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final<br>concentration of glycerol is 50%. Customers could use it as reference.   |
| <b>Shelf Life</b>        | The shelf life is related to many factors, storage state, buffer ingredients,<br>storage temperature and the stability of the protein itself.<br>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.