

Recombinant Rabbit F9 Protein, His-tagged

Cat. No. F9-914R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rabbit F9 Protein (Ile228-Lys460) with His tag was expressed in E. coli.
Species	Rabbit
Source	E.coli
ProteinLength	Ile228-Lys460
Description	This gene encodes vitamin K-dependent coagulation factor IX that circulates in the blood as an inactive zymogen. This factor is converted to an active form by factor XIa, which excises the activation peptide and thus generates a heavy chain and a light chain held together by one or more disulfide bonds. The role of this activated factor IX in the blood coagulation cascade is to activate factor X to its active form through interactions with Ca⁺² ions, membrane phospholipids, and factor VIII. Alterations of this gene, including point mutations, insertions and deletions, cause factor IX deficiency, which is a recessive X-linked disorder, also called hemophilia B or Christmas disease. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 29.7 kDa; Accurate Molecular Mass: 33 kDa
Purity	> 80%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

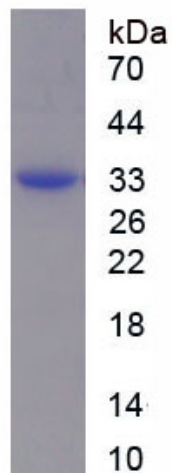
GENE INFORMATION

Gene Name	F9 coagulation factor IX [<i>Oryctolagus cuniculus</i> (rabbit)]
Official Symbol	F9
Synonyms	F9; coagulation factor IX; christmas factor;
Gene ID	100009113
mRNA Refseq	NM_001195725
Protein Refseq	NP_001182654
UniProt ID	G1U9U2

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