

Recombinant Cattle F8 Protein, His-tagged

Cat. No. F8-912C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle F8 Protein (Lys2010-Tyr2323) with His tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Lys2010-Tyr2323
Description	<p>This gene encodes coagulation factor VIII, which participates in the intrinsic pathway of blood coagulation; factor VIII is a cofactor for factor IXa which, in the presence of Ca⁺² and phospholipids, converts factor X to the activated form Xa. This gene produces two alternatively spliced transcripts. Transcript variant 1 encodes a large glycoprotein, isoform a, which circulates in plasma and associates with von Willebrand factor in a noncovalent complex. This protein undergoes multiple cleavage events. Transcript variant 2 encodes a putative small protein, isoform b, which consists primarily of the phospholipid binding domain of factor VIIIc. This binding domain is essential for coagulant activity. Defects in this gene results in hemophilia A, a common recessive X-linked coagulation disorder.</p>
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 39.4 kDa; Accurate Molecular Mass: 37 kDa
Purity	> 90%

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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	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	F8 coagulation factor VIII [<i>Bos taurus</i> (cattle)]
Official Symbol	F8
Synonyms	F8; coagulation factor VIII; coagulation factor VIII; coagulation factor VIII, procoagulant component; factor VIII
Gene ID	100271720
mRNA Refseq	XM_005227639
Protein Refseq	XP_005227696
UniProt ID	G5E5W1

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