

Recombinant Human F8 Protein, His-tagged

Cat. No. F8-1454H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human F8 Protein (Cys2040-Cys2345) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Cys2040-Cys2345
Description	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 Ca²⁺ 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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 38.4 kDa Accurate Molecular Mass: 36 kDa

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Purity	> 80%
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 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	F8 coagulation factor VIII, procoagulant component [Homo sapiens (human)]
Official Symbol	F8
Synonyms	F8; coagulation factor VIII, procoagulant component; F8C; coagulation factor VIII; DXS1253E; Factor VIIIF8B; FVIII; HEMA; hemophilia A; factor VIII F8B; antihemophilic factor; coagulation factor VIIIC; AHF; F8B;
Gene ID	2157
mRNA Refseq	NM_000132

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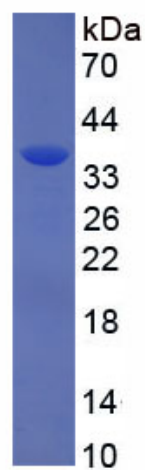
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Protein Refseq NP_000123

MIM 300841

UniProt ID P00451



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