

Recombinant Human F8, His-tagged

Cat. No. F8-12626H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human F8 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-208a.a.
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 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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

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GENE INFORMATION

Gene Name	F8 coagulation factor VIII, procoagulant component [Homo sapiens]
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
Protein Refseq	NP_000123
MIM	300841
UniProt ID	P00451
Chromosome Location	Xq28
Pathway	Blood Clotting Cascade, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Formation of Fibrin Clot (Clotting Cascade), organism-specific biosystem; Hemostasis, organism-specific biosystem; Intrinsic Pathway, organism-specific biosystem;
Function	copper ion binding; metal ion binding; oxidoreductase activity; protein binding;

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