

Recombinant Full Length Human F8 Protein

Cat. No. F8-13HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Antihemophilic Factor Human Recombinant produced in CHO is a glycosylated polypeptide chain having 2322 amino acids. The Factor-VIII is purified by proprietary chromatographic techniques.
Species	Human
Source	CHO
ProteinLength	2322 amino acids
Description	Coagulation factor VIII 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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. Each 250IU vial was lyophilized from a solution containing 8mg Tween-80, 112mM NaCl, 40mg Mannitol, 10mg Trehalose, 1ng VWF and 4.2mM CaCl ₂ .

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Bio-activity	The specific activity was found to be 7,058 IU/mg.
Purity	Greater than 97.0% as determined by SDS-PAGE.
Storage	Lyophilized Factor-VIII although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution Factor-VIII should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. Please prevent freeze-thaw cycles.
Storage Buffer	It is recommended to reconstitute 250IU lyophilized Factor-VIII in 5ml sterile 18M-cm H ₂ O, which can then be further diluted to other aqueous solutions.
GENE INFORMATION	
Gene Name	F8 coagulation factor VIII [Homo sapiens (human)]
Official Symbol	F8
Synonyms	F8; coagulation factor VIII; AHF; F8B; F8C; HEMA; FVIII; THPH13; DXS1253E; Procoagulant component; Antihemophilic factor; F8 protein
Gene ID	2157
mRNA Refseq	NM_000132.4
Protein Refseq	NP_000123.1
MIM	300841
UniProt ID	P00451

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