

## Recombinant Full Length Human F8 Protein

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	2322 amino acids
<b>Description</b>	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 <sup>2+</sup> 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.
<b>Form</b>	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 <sub>2</sub> .

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<b>Bio-activity</b>	The specific activity was found to be 7,058 IU/mg.
<b>Purity</b>	Greater than 97.0% as determined by SDS-PAGE.
<b>Storage</b>	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.
<b>Storage Buffer</b>	It is recommended to reconstitute 250IU lyophilized Factor-VIII in 5ml sterile 18M-cm H <sub>2</sub> O, which can then be further diluted to other aqueous solutions.

## GENE INFORMATION

<b>Gene Name</b>	F8 coagulation factor VIII [ Homo sapiens (human) ]
<b>Official Symbol</b>	F8
<b>Synonyms</b>	F8; coagulation factor VIII; AHF; F8B; F8C; HEMA; FVIII; THPH13; DXS1253E; Procoagulant component; Antihemophilic factor; F8 protein
<b>Gene ID</b>	2157
<b>mRNA Refseq</b>	NM_000132.4
<b>Protein Refseq</b>	NP_000123.1
<b>MIM</b>	300841
<b>UniProt ID</b>	P00451

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