Human Factor-VIII

Cat. No. F8-3065H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Facor VIII produced from Human Plasma is effective in the correction and prevention of severe bleeding episodes attributed to Factor VIII deficiency. The Factor-VIII is purified by proprietary chromatographic techniques.
Species	Human
Source	Human Plasma
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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	The lyophilized protein 200IU/ml was lyophilized from a sterile solution containing 1.5% Glycine, 160mM Calcium chloride and 25mM NaCitrate and 25mM NaCl.
Solubility	It is recommended to reconstitute the lyophilized Factor-VIII in sterile

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	18MΩ-cm H2O at a concentration of 200IU/ml, which can then be further diluted to other aqueous solutions. Make sure that the vial has reached room temperature prior to its reconstitution, otherwise it might precipitate.
Stability	Lyophilized Factor-VIII although stable at room temperature for 1 week, should be stored desiccated between 2-8°C. Upon reconstitution Factor-VIII should be storedat 4°C.
Biological Activity	The potency per mg was tested and found to be 150 Units/mg.
Human Virus Test	The plasma is collected from donors with Hepatitis B vaccinated. Each unit of plasma has been tested for HBsAg, Anti-HIV-1/2 plus O and Anti-HCV by using the imported kits which are approved by Federal Drug Administration (FDA).
Usage	Creative BioMart"s products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

GENE INFORMATION

Gene Name	F8 coagulation factor VIII, procoagulant component [Homo sapiens]
Synonyms	F8; coagulation factor VIII, procoagulant component; AHF; F8B; F8C; HEMA; FVIII; DXS1253E; coagulation factor VIII; factor VIII F8B; coagulation factor VIIIc; antihemophilic factor
Gene ID	2157
mRNA Refseq	NM_000132
Protein Refseq	NP_000123

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MIM	306700
UniProt ID	P00451
Chromosome Location	Xq28
Pathway	Complement and coagulation cascades; Hemostasis
Function	copper ion binding; metal ion binding; oxidoreductase activity; protein binding

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