Human Factor-VIII

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

**Specification**

**Product Overview**

Human Factor 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.

**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.

**Source**

Human Plasma.

**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 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 stored at 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;
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