



## Coagulation Factor VIII Human, Recombinant Protein

### Product Data Sheet

<b>Cat. No.:</b>	A13180250	A13180500	A13181000
	250 IU	500 IU	1000 IU

#### Description

*Coagulation Factor VIII Human, Recombinant Protein* is produced in CHO cells and is a glycosylated polypeptide chain with 2322 amino acids. The protein is purified by proprietary chromatographic techniques.

#### Summary

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.

#### Other Names

Coagulation factor-VIII, Procoagulant component, Antihemophilic factor, AHF, F8, F8C, F8B, HEMA, FVIII, DXS1253E, F8 protein.

#### Type

Recombinant Protein

#### Source

CHO cells (Chinese Hamster Ovarian Cells)

#### Formulation

Sterile-filtered white lyophilized (freeze-dried) powder. Each 250 IU vial was lyophilized from a solution containing 8 mg Tween-80, 112 mM NaCl, 40 mg Mannitol, 10 mg Trehalose, 1 ng VWF and 4.2 mM CaCl<sub>2</sub>.

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### **Reconstitution**

It is recommended to reconstitute 250 IU lyophilized Factor-VIII in 5 ml sterile 18M-cm H<sub>2</sub>O, which can then be further diluted to other aqueous solutions.

### **Purity**

Purity greater than 97.0% as determined by SDS-PAGE.

### **Biological Activity**

The specific activity was found to be 7,058 IU/mg.

### **Shipping**

Ships at ambient temperature. Upon receipt, store the product at the temperature recommended below.

### **Storage/Expiration**

Lyophilized Factor-VIII, although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution, Factor-VIII should be stored at 4° C between 2-7 days and for future use below -18° C. **Please prevent freeze-thaw cycles.**

### **Usage**

This product is intended for **Laboratory Research Use Only**. Not for use in diagnostic or therapeutic procedures. This product may not be used as a pharmaceutical or veterinary drug, agricultural product, or food additive.

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