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## Product Data Sheet

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Product Name: F8 Human  
Cat. No.: GP23438  
Batch No.: 1

### Product Data

Purity	>98%	Source	Human Plasma.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Coagulation factor VIII; Procoagulant component; Antihemophilic factor; AHF; F8; F8C; F8B; HEMA; FVIII; DXS1253E; F8 protein.		
Solubility	It is recommended to reconstitute the lyophilized Factor-VIII in sterile 18MΩ-cm H <sub>2</sub> O 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.		
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.		

### Introduction

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.

### Biological Activity

The potency was found to be 10 Units/mg.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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 .

### Background

Human Factor VIII produced from Human Plasma contains 2332 amino acids and having a molecular mass of 330kDa. Factor-VIII 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.

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