



Coagulation Factor VIII Human, Native Protein

Product Data Sheet

Cat. No.:	A1317200	A1317400	A1317600
	200 IU	400 IU	600 IU

Description

Coagulation Factor VIII Human, Native Protein is purified from human plasma. The protein contains 2332 amino acids and has a molecular mass of 330 kDa. 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⁺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.

Other Names

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

Type

Native Protein

Source

Human plasma

Formulation

Sterile-filtered white lyophilized (freeze-dried) powder. The protein is lyophilized from a 200 IU/ml sterile solution containing 1.5% Glycine, 160 mM Calcium chloride and 25 mM NaCitrates and 25 mM NaCl.

update.: 042023

Ilex Life Sciences LLC

1465 Sand Hill Rd, Suite 2018, Candler, NC 28715

Tel: 828-531-9949; Email: info@ilexlife.com

Web: <https://ilexlife.com/>



Reconstitution

It is recommended to reconstitute the lyophilized Factor-VIII in sterile 18M Ω -cm H₂O at a concentration of 200 IU/ml, which can then be further diluted to other aqueous solutions.

NOTE: Please ensure that the vial has reached room temperature prior to its reconstitution, otherwise it might precipitate.

Biological Activity

The biological activity was determined to be 10 Units/mg.

Viral Testing

The plasma is collected from donors vaccinated against Hepatitis B. Each unit of plasma has been tested for HBsAg, Anti-HIV-1/2 plus O and Anti-HCV with FDA approved methods.

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 1 week, should be stored desiccated between 2-8° C. Upon reconstitution, Factor-VIII should be stored at 4° C.

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.

update.: 042023

Ilex Life Sciences LLC

1465 Sand Hill Rd, Suite 2018, Candler, NC 28715

Tel: 828-531-9949; Email: info@ilexlife.com

Web: <https://ilexlife.com/>