

F8 Human

Coagulation Factor-VIII Human
RCP0800

Product Overview

Name F8 Human

Description

Coagulation Factor-VIII Human

Accession (Primary) [P00451](#)

Synonyms

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

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 Ca²⁺ 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

CHO cells (Chinese Hamster Ovarian Cells).

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Each 250IU vial was lyophilized from a solution containing 8mg Tween-80, 112mM NaCl, 40mg Mannitol, 10mg Trehalose, 1ng VWF and 4.2mM CaCl₂.

Stability

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.

Purity

Greater than 97.0% as determined by SDS-PAGE.

Biological Activity

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

Solubility

It is recommended to reconstitute 250IU lyophilized Factor-VIII in 5ml sterile 18M-cm H₂O, which can then be further diluted to other aqueous solutions.

Precautions

F8 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([P00451](#))
