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Zuschläge

- Mindermengenzuschlag
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Recombinant Human Factor-VIII

CLPRO318
CLPRO318-2
CLPRO318-3
Lot:

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^{+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 non-covalent 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.

Description: Recombinant Human Antihemophilic Factor produced in CHO is a glycosylated polypeptide chain having a total amino acids of 1438 (170 kDa) and consisting of two dimer chains 80 kDa and 90 kDa. The Factor-VIII is purified by proprietary chromatographic techniques.

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

Source: CHO cells (Chinese Hamster Ovarian Cells).

Presentation: 250 IU (CLPRO318), 500 IU (CLPRO318-2), or 1000 IU (CLPRO318-3), sterile filtered white lyophilized (freeze-dried) powder. The protein was lyophilized from a solution containing 50 mM histidine, 0.3 M NaCl, 5 mM CaCl_2 , 0.02% Tween 80, 20 mM sucrose, pH 6.8.

Solubility: It is recommended to reconstitute the lyophilized Factor-VIII in 1ml sterile 18MΩ-cm H_2O , which can then be further diluted to other aqueous solutions.

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 6839 IU/mg.

Laboratory Reagent for Research Use Only

JV 01/14/11

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