

F8

Recombinant Human Factor VIII

Catalog No.	CRA125A CRA125B CRA125C	Quantity:	250 IU 500 IU 1000 IU
Alternate Names:	Coagulation factor VIII, Procoagulant component, Antihemophilic factor, AHF, F8, F8C, F8B, HEMA, FVIII, DXS1253E, F8 protein.		
Description:	<p>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.</p> <p>Recombinant Human Factor VIII produced in CHO is a glycosylated polypeptide chain having a total amino acids of 1438 (170 kd) and consisting of two dimer chains 80 kD and 90 kD.</p> <p>The Factor VIII is purified by proprietary chromatographic techniques.</p>		
Gene ID:	2157		
UniProtKB:	P00451		
Source:	CHO cells (Chinese Hamster Ovarian Cells)		
Formulation:	Each IU was lyophilized from a solution containing 30 µg PEG (polyethylene glycol), 1.6 ng VWF (von Willebrand factor), 40 µg calcium, and 250 µg HSA (human serum albumin).		
Purity:	> 97 % as determined by SDS-PAGE.		
Biological Activity:	The specific activity was found to be 7,058 IU/mg.		
Reconstitution:	It is recommended to reconstitute the product in the designated volume of sterile distilled water, which can then be further diluted to other aqueous solutions.		
Storage & Stability:	Upon receipt, store desiccated below -18 °C. Upon reconstitution store at 4 °C for one week. For long term storage, store in working aliquots -20 to -80 °C. Avoid repeated freeze-thaw cycles.		

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