



Recombinant Human Coagulation factor VIII (F8)

Product Code	CSB-MP007932HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P00451
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MRIQDPGKVVFFGNVDSSGIKHNIFNPPIIARYIRLHPHTHYSIRSTLRMELMGCDL NSCSM PLGMESKAISDAQITASSYFTNMFATWSPSKARLHLQGRSNAWRPQVNNPKE WLQVDFQK TMKVTGVTTQGVKSLTSMYVKEFLISSSQDGHQWTLFFQNGKVKVFQGNQD SFTPVVNS LDPPLLTRYLRIHPQSWVHQIALRMEVLGCEAQDLY
Source	Mammalian cell
Target Names	F8
Protein Names	Recommended name: Coagulation factor VIII Alternative name(s): Antihemophilic factor Short name= AHF Procoagulant component Cleaved into the following 4 chains: 1. Factor VIIIa heavy chain, 200 kDa isoform 2. Factor VIII
Expression Region	1-216AA
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein of Isoform 2
Target Details	This gene encodes coagulation factor VIII, which 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.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at $-20^{\circ}\text{C}/-80^{\circ}\text{C}$. The shelf life of lyophilized form is 12 months at $-20^{\circ}\text{C}/-80^{\circ}\text{C}$.