



Recombinant Bovine Coagulation factor VII (F7)

Product Code	CSB-EP007930BO-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P22457
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	≥85% (SDS-PAGE)
Sequence	ANGFLEELLP GSLERECREE LCSFEEAHEI FRNEERTRQF WVSyndGDQC ASSPCQNGGS CEDQLRSYIC FCPDGFEGRN CETDKQSQLI CANDNGGCEQ YCGADPGAGR FCWCHEGYAL QADGVSCAPT VEYPCGKIPV LEKRNGSKPQ GR
Source	E.coli
Target Names	F7
Protein Names	Recommended name: Coagulation factor VII EC= 3.4.21.21 Alternative name(s): Serum prothrombin conversion accelerator Cleaved into the following 2 chains: 1. Factor VII light chain 2. Factor VII heavy chain
Expression Region	41-192
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 of Mature Protein
Target Details	This gene encodes coagulation factor VII which is a vitamin K-dependent factor essential for hemostasis. This factor circulates in the blood in a zymogen form, and is converted to an active form by either factor IXa, factor Xa, factor XIIa, or thrombin by minor proteolysis. Upon activation of the factor VII, a heavy chain containing a catalytic domain and a light chain containing 2 EGF-like domains are generated, and two chains are held together by a disulfide bond. In the presence of factor III and calcium ions, the activated factor then further activates the coagulation cascade by converting factor IX to factor IXa and/or factor X to factor Xa. Alternative splicing of this gene results in 2 transcripts. Defects in this gene can cause coagulopathy.
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°C/-80°C. The shelf life



of lyophilized form is 12 months at -20°C/-80°C.