

## Recombinant Human F7 protein, His-tagged

Cat. No. F7-1911H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human F7 aa. (Ala334~Arg452 (Accession # P08709)) fused with N-terminal His tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ala334~Arg452
<b>Description</b>	<p>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. Defects in this gene can cause coagulopathy. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing to generate mature polypeptides.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 14.7kDa.

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<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 7.8.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage Buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

<b>Gene Name</b>	F7 coagulation factor VII [ Homo sapiens (human) ]
<b>Official Symbol</b>	F7
<b>Synonyms</b>	Pfkm; phosphofructokinase, muscle; PFK-A; Pfk-M; ATP-PFK; ATP-dependent 6-phosphofructokinase, muscle type; 6-phosphofructokinase type A; 6-phosphofructokinase, muscle type; phosphofructo-1-kinase isozyme A;

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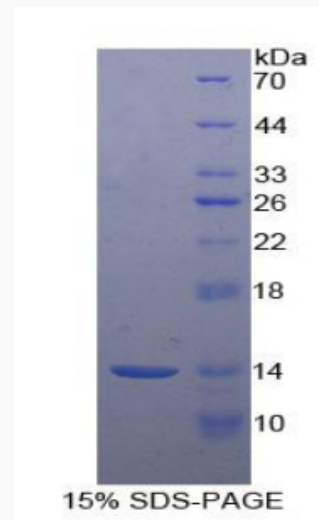
phosphofructokinase 1; phosphofructokinase-A; phosphofructokinase-M;  
phosphohexokinase

**Gene ID** 2155

**mRNA Refseq** NM\_000131.4

**Protein Refseq** NP\_000122.1

**UniProt ID** P08709



SDS-PAGE

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