

## Recombinant Full Length Human F7 Protein, GST-tagged

Cat. No. F7-4500HF Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human F7 full-length ORF ( NP_062562.1, 1 a.a. - 444 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	444 amino acids
<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. [provided by RefSeq, Aug 2015]</p>
<b>Molecular Mass</b>	75.7 kDa
<b>AA Sequence</b>	MVSQALRLLCLLLGLQGCLAAVFVTQEEAHGVLHRRRRANAFLEELRPGSLERECK EEQCSFEEAREIFKDAERTKLFWISYSDGDQCASSPCQNGGCKDQLQSYICFCLP

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AFEGRNCETHKDDQLICVNENGGCEQYCS DHTGTRSCRCHEGYSLLADGV SCTP  
 TVEYPCGKIPILEKRNASKPQGRIVGGKVC PKGECPWQVLLL VNGAQLCGGTLINTI  
 WVVSAAHCFDKIKNWRNLI AVLGEHDLSEHDGDEQSRRVAQVIIPSTYVPGTTN HDI  
 ALLRLHQPVVLT DHVVPLCLPERTFSERTLAFVRFSLVSGWGQLLDRGATALELMVL  
 NVPRLMTQDCLQQSRKVG DSPNITEYMFCAGYSDGSKD SCKGDSGGPHATHYRG  
 TWYLTGIVSWGQGCATVGHFGVYTRVSQYIEWLQKLMRSEPRPGVLLRAPFP

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	F7 coagulation factor VII (serum prothrombin conversion accelerator) [ Homo sapiens ]
<b>Official Symbol</b>	F7
<b>Synonyms</b>	F7; coagulation factor VII (serum prothrombin conversion accelerator); coagulation factor VII; eptacog alfa; factor VII; FVII coagulation protein; SPCA; proconvertin; serum prothrombin conversion accelerator;
<b>Gene ID</b>	2155

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mRNA Refseq	NM_000131
Protein Refseq	NP_000122
MIM	613878
UniProt ID	P08709

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