

Recombinant Human F7 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. F7-530H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	F7 MS Standard C13 and N15-labeled recombinant protein (NP_062562) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<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>
Molecular Mass	49.3 kDa
AA Sequence	MVSQALRLLCLLLGLQGCLAAVFVTQEEAHGVLHRRRRANAFLEELRPGSLERECK EEQCSFEEAREIFKDAERTKLFWISYSDGDQCASSPCQNGGCKDQLQSYICFCLP

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AFEGRNCETHKDDQLICVNENGGCEQYCS DHTGTRKSCRCHEGYSLLADGV SCTP
 TVEYPCGKIPILEKRNASKPQGRIVGGKVC PKGECPWQVLLL VNGAQLCGGTLINTI
 WVVSAAHCFDKIKNWRNLI AVLGEHDLSEHDGDEQSRRVAQVIIPSTYVPGTTN HDI
 ALLRLHQPVVLT DHVVPLCLPERTFSERTLAFVRFSLVSGWGQLLDRGATALELMVL
 NVPRLMTQDCLQQSRKVG DSPNITEYMFCAGYSDGSKD SCKGDSGGPHATHYRG
 TWYLTGIVSWGQGCATVGHFGVYTRVSQYIEWLQKLMRSEPRPGVLLRAPFSPGP
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [F7 coagulation factor VII \[Homo sapiens \(human\) \]](#)

Official Symbol [F7](#)

Synonyms F7; coagulation factor VII (serum prothrombin conversion accelerator); coagulation factor VII; eptacog alfa; factor VII; FVII coagulation protein; SPCA; proconvertin; serum prothrombin conversion accelerator;

Gene ID [2155](#)

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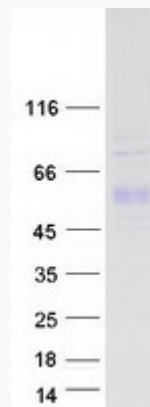
mRNA Refseq [NM_019616](#)

Protein Refseq [NP_062562](#)

MIM [613878](#)

UniProt ID [P08709](#)

SDS-PAGE



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