

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	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.
Molecular Mass	49.3 kDa
AA Sequence	MVSQALRLLCLLLGLQGCLAAVFVTQEEAHGVLHRRRRANAFLEELRPGSLERECK EEQCSFEEAREIFKDAERTKLFWISYSDGDQCASSPCQNGGSKDQLQSYICFCLP

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AFEGRNCETHKDDQLICVNENGGCEQYCSHTGTRKSCRCHEGYSLADGVSCTP
TVEYPCGKIPILEKRNASKPQGRIVGGKVC PKGEC PWQVLLL VNGAQLCGGTLINTI
WVVSAAHCFDKIKNWRNLI AVLGEHDLSEHDGDEQSRRVAQVIIPSTYVP GTTNHDI
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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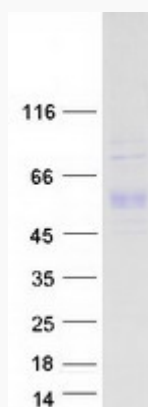
mRNA Refseq [NM_019616](#)

Protein Refseq [NP_062562](#)

MIM [613878](#)

UniProt ID [P08709](#)

SDS-PAGE



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