

Product datasheet for PH313143

Factor VII (F7) (NM_019616) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	F7 MS Standard C13 and N15-labeled recombinant protein (NP_062562)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213143
Predicted MW:	49.3 kDa
Protein Sequence:	>RC213143 representing NM_019616 Red=Cloning site Green=Tags(s) MVSQALRLLCLLLGLQGCLAAVFTQEEAHGVLHRRRRANAFLEELRPGSLERECKEEQCSFEEAREIFK DAERTKLFWISYSDGDQCASSPCQNGGCKDQLQSYICFCLPAFEGRNCETHKDDQLICVNENGGCEQYC SDHTGTRSCRCHEGYSLLADGVSTPTVEYPCGKIPILEKRNASKPQGRIVGGKVC PKGECWPVQLLLV NGAQLCGGTLINTIWWVSAAHCFDKIKNWRNLI AVLGEHDLSEHDGDEQSRRVAQVIIPSTYVPGTTNHD IALLRLHQPVVLTDHVVPLCLPERTFSERTLAFVRFSLVSGWGQLLDRGATALELMVLNVPRLMTQDCLQ QSRKVGDSPNITEYMFCA GYS DGSCKD SGGPHATHYRGTWYLTGIVSWGQGCATVGHFGVYTRVSQ YIEWLQKLMRSEPRPGVLLRAPFP SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_062562</u>
RefSeq Size:	3078
RefSeq ORF:	1332
Synonyms:	SPCA



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Locus ID: 2155

UniProt ID: [P08709](#)

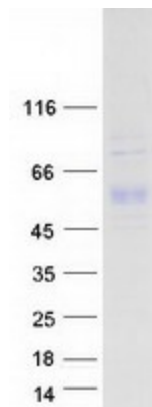
Cytogenetics: 13q34

Summary: 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]

Protein Families: Druggable Genome, Protease

Protein Pathways: Complement and coagulation cascades

Product images:



Coomassie blue staining of purified F7 protein (Cat# [TP313143]). The protein was produced from HEK293T cells transfected with F7 cDNA clone (Cat# [RC213143]) using MegaTran 2.0 (Cat# [TT210002]).