

Recombinant Full Length Human F13A1 Protein, C-Flag-tagged

Cat. No. F13A1-1437HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human F13A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	<p>This gene encodes the coagulation factor XIII A subunit. Coagulation factor XIII is the last zymogen to become activated in the blood coagulation cascade. Plasma factor XIII is a heterotetramer composed of 2 A subunits and 2 B subunits. The A subunits have catalytic function, and the B subunits do not have enzymatic activity and may serve as plasma carrier molecules. Platelet factor XIII is comprised only of 2 A subunits, which are identical to those of plasma origin. Upon cleavage of the activation peptide by thrombin and in the presence of calcium ion, the plasma factor XIII dissociates its B subunits and yields the same active enzyme, factor XIIIa, as platelet factor XIII. This enzyme acts as a transglutaminase to catalyze the formation of gamma-glutamyl-epsilon-lysine crosslinking between fibrin molecules, thus stabilizing the fibrin clot. It also crosslinks alpha-2-plasmin inhibitor, or fibronectin, to the alpha chains of fibrin. Factor XIII deficiency is classified into two categories: type I deficiency, characterized by the lack of both the A and B subunits; and type II deficiency, characterized by the lack of the A subunit alone. These defects can result in a lifelong bleeding tendency, defective wound healing, and habitual abortion.</p>
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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Molecular Mass	79.2 kDa
AA Sequence	<p>MSETSRTAFGGRRRAVPPNNSNAAEDDLPTVELQGVVPRGVNLQEFLNVTSVHLFKE RWDTNKVDHHTDKY ENNKLIVRRGQSFYVQIDFSRPYDPRRDLFRVEYVIGRYPQE NKGTYIPVPIVSELQSGKWGAKIVMRED RSVRLSIQSSPKCIVGKFRMYVAVWTPYG VLRTSRNPETDTYILFNPWCEDDAVYLDNEKEREEYVLNDI GVIFYGEVNDIKTRSW SYGQFEDGILDTCLYVMDRAQMDLSGRGNPIKVS RVGSAMVNAKDDEGVLVGSW DNIYAYGVPPSAWTGSVDILLEYSSENPNVRYGQCWVVFAGVFNTFLRCLGIPARIVT NYFSAHDNDANLQ MDIFLEEDGNVNSKLTKDSVWNYHCWNEAWMTRPDLPVGF GWQAVDSTPQENS DGM YRCGPASVQA I KH GHVCFQFDAPFVFAEVNSDLIYITAKK DGTHVVENV DATHIGKLIVTKQIGGDGMM DITDTYKFQEGQEE ERLALETALMYGAK KPLNTEGVMKSRSNVDMDFEVENAVLGKDFKLSITFRNNSHNRYTITAYLSANITF Y TGVPKAEFKKETF DVTLEPLSFKKEAVLIQAGEYMGQLLEQASLHFFVTARINETRDV LAKQKSTVLT I PEIIIKVRGTQVVGSDMTVIVEFTNPLKETLRNVVHLDGPGVTRPM KKMFREIRPNSTVQWEEVCRPWV SGHRKLIASMSDSL RHVYGELDVQIQR RPSMTRTRPLEQKLISEEDLAANDILDYKD DDDKV</p>
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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Protein Families	Druggable Genome, Secreted Protein
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Protein Pathways	Complement and coagulation cascades
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Full Length	Full L.
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GENE INFORMATION

Gene Name	F13A1 coagulation factor XIII A chain [Homo sapiens (human)]
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Official Symbol	F13A1
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Synonyms	F13A
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Gene ID	2162
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mRNA Refseq	NM_000129.4
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Protein Refseq	NP_000120.2
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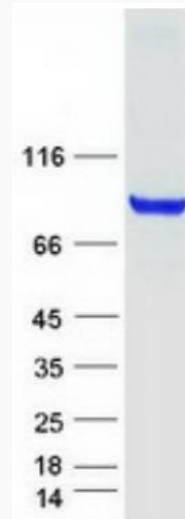
MIM	134570
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UniProt ID	P00488
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Coomassie blue staining of purified F13A1 protein.

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