

Recombinant Human F13A1 Protein, His-tagged

Cat. No. F13A1-1330H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human F13A1(Gly39-Met732) fused with His tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Gly39-Met732
Description	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 composed of just 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. 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.

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Form	Supplied as a 0.2 µm filtered solution of 50 mM NaCl, 5% Sucrose, 1% Tween 20 (v/v), 0.3% Histidine (w/v), pH 8.0.
AA Sequence	GVNLQEFLNVTSVHLFKERWDTNKVDHHTDKYENNNKLIVRRGQSFYVQIDFSRPYD PRRDLFRVE YVIGRYPQENKGTYPVPIVSELQSGKWGAKIVMREDRSVRLSIQSSP KCIVGKFRMYVAVWTPY GVLRTSRNPETDTYILFNPWCEDDAVYLDNEKEREEYVL NDIGVIFYGEVNDIKTRSWSYGQFED GILDTCLYVMDRAQMDLSGRGNPIKVS RVG SAMVNAKDDEGVLVGSWDNIYAYGVPPSAWTGSVD ILLEYRSEN PVRYGQCWVF AGVFNTFLRCLGIPARIVTNYFSAHDNDANLQMDIFLEEDGNVNS KLTKDSVWNYH CWNEAWMTRPDLPVGFGGWQAVDSTPQENS DGM YRCGPASVQA IKHGHVCFQF D APFVFAEVNSDLIYITAKKD GTHVVENVDATHIGKLIVTKQIGGDGMMDITDTYKFQ EGQEEERL ALETALMYGAKKPLNTEGVMKSR SNVDMDFEVENAVLGKDFKLSITFR NNSHNRYTITAYLSANI TFYTGVPKAEFKKETFDVTLEPLSFKKEAVLIQAGEYMGQL LEQASLHFFVTARINETRDVLAKQ KSTVLTIP EIIKVRGTQVVGSDMTVTVQFTNPLK ETLRNVVHLDGPGVTRPMKKMFREIRPNS TVQWEEVCRPWVSGHRKLIASMSS DSL RHVYGELDVQIQRRPSMVDH HHHHHH
Endotoxin	Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	Store at < -20 centigrade, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Shipping	The product is shipped on dry ice/ice packs.

GENE INFORMATION

Gene Name	F13A1 coagulation factor XIII, A1 polypeptide [Homo sapiens]
Official Symbol	F13A1

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Synonyms F13A1; coagulation factor XIII, A1 polypeptide; F13A; coagulation factor XIII A chain; TGase; factor XIIIa; fibrinolygase; FSF, A subunit; coagulation factor XIIIa; transglutaminase A chain; transglutaminase. plasma; fibrin stabilizing factor, A subunit; coagulation factor XIII, A polypeptide; protein-glutamine gamma-glutamyltransferase A chain; bA525O21.1 (coagulation factor XIII, A1 polypeptide);

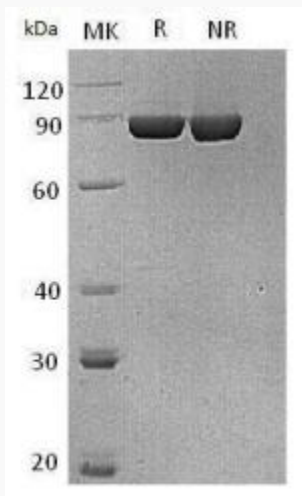
Gene ID 2162

mRNA Refseq NM_000129

Protein Refseq NP_000120

MIM 134570

UniProt ID P00488



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