

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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	<p>GVNLQEFLNVTSVHLFKERWDTNKVDHHTDKYENNKLIVRRGQSFYVQIDFSRPYD PRRDLFRVE YVIGRYPQENKGTYPVPIVSELQSGKWGAKIVMREDRSVRLSIQSSP KCIVGKFRMYVAVWTPY GVLRTSRNPETDTYILFNPWCEDDAVYLDNEKEREEYVL NDIGVIFYGEVNDIKTRSWSYGQFED GILDTCLYVMDRAQMDLSGRGNPIKVS RVG SAMVNAKDDEGLVGSWDNIYAYGVPPSAWTGSVD ILLEYRSEN PVRYGQCWVF AGVFNTFLRCLGIPARIVTNYFSAHDNDANLQMDIFLEEDGNVNS KLTKDSVWNYH CWNEAWMTRPDLVGFGGWQAVDSTPQENS DGM YRCGPASVQAIKHGHVCFQF D APFVFAEVNSDLIYITAKKDGTHVVENVDATHIGKLIVTKQIGGDGMMDITDTYKFQ EGQEEERL ALETALMYGAKKPLNTEGVMKSRSNVDMDFEVENAVLGKDFKLSITFR NNSHNRYTITAYLSANI TFYTGVPKAEFKKETFDTLEPLSFKKEAVLIQAGEYMGQL LEQASLHFFVTARINETRDVLAKQ KSTVLTIP EIIKVRGTQVVGSDMTVTVQFTNPLK ETLRN VWVHLDGPGVTRPMKKMFREIRPNS TVQWEEVCRPWVSGHRKLIASMSS DSLRHVY GELDVQIQRRPSMVDHHHHHH</p>
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);

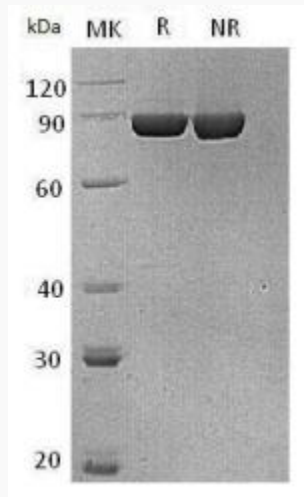
Gene ID [2162](#)

mRNA Refseq [NM_000129](#)

Protein Refseq [NP_000120](#)

MIM [134570](#)

UniProt ID [P00488](#)



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