



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Datasheet

### F13A1 (Human) Recombinant Protein (P01)

**Catalog Number:** H00002162-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human F13A1 full-length ORF (AAH27963, 1 a.a. - 732 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MSETSRATFGGRRVAPPNNSNAEDDLPTVELQGVV  
PRGVNLQEFLNATSVHLFKERWDTNKVDHHTDKYEN  
NKLIVRRGQSFYVQIDFSRPYDPRRDLFRVEYVIGRYP  
QENKGTYPVPIVSELQSGKWGAKIVMREDRSVRLSIQ  
SSPKCIVGKFRMYVAVWTPYGVLRTSRNPETDTYILFN  
PWCEDDAVYLDNEKEREYVLDIGVIFYGEVNDIKTR  
SWSYGGFEDGILDTCLYVMDRAQMDLSGRGNPIKVS  
RVGSAMVNAKDDEGLVGSWDNIYAYGVPPSAWTGS  
VDILLEYSSENPNVRYGQCWVFAGVFNTFLRCLGIPAR  
IVTNYFSAHDNDANLQMDIFLEEDGNVNSKLTKDSVW  
NYHCWNEAWMTRPDLVGFGGWQAVDSTPQENSD  
GMYRCGPASVQAIKHGHVCFQFDAPFVFAEVNSDLIYI  
TAKKDGTHVVENV DATHIGKLIVTKQIGGDGMMDITDT  
YKFQEGQEEERLALETALMYGAKKPLNTEGVMKSRSN  
VDMDFEVENAVLGKDFKLSITFRNNSHNRYTITAYLSA  
NITFYTGVPKAEFKKETFDVTLEPLSFKKEAVLIQAGEY  
MGQLLEQASLHFFVTARINETRDVLAKQKSTVLTPIEIII  
KVRGTQVVGSDMTVIVEFTNPLKETLRNVVWVHLDGPG  
VTRPMKMKFREIRPNSTVQWEEVCRPWVSGHRKLIAS  
MSSDSL RHVYGELDVQIQRPSM

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 106.26

**Applications:** AP, Array, ELISA, WB-Re

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 2162

**Gene Symbol:** F13A1

**Gene Alias:** F13A

**Gene Summary:** 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. [provided by RefSeq]