

Product datasheet

Recombinant human TFPI protein ab167711

2 Images

Description

<b>Product name</b>	Recombinant human TFPI protein	
<b>Biological activity</b>	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca - RPKPVE - NvaI- WRK(Dnp) - NH2. The IC <sub>50</sub> value is < 0.35 nM, as measured in 100 µl reaction mixture containing 1.25 ng trypsin, 10 µM substrate, 50 mM Tris, 10 mM CaCl <sub>2</sub> , 150 mM NaCl, 0.05% Brij-35 (w/v), pH 7.5.	
<b>Purity</b>	> 90 % SDS-PAGE.	
<b>Endotoxin level</b>	< 1.000 Eu/µg	
<b>Expression system</b>	HEK 293 cells	
<b>Accession</b>	<a href="#">P10646</a>	
<b>Protein length</b>	Protein fragment	
<b>Animal free</b>	No	
<b>Nature</b>	Recombinant	
<b>Species</b>	Human	
<b>Sequence</b>	DSEEDDEHTI ITDTELPPLK LMHSFCAFKA DDGPCKAIMK RFFFNIFTRQ CEEFYGGCE GNQNRFSLE ECKKMCTRDN ANRIKTTLQ QEKPDFCFLE EDPGICRGYI TRYFYNNQTK QCERFKYGGC LGNMNNFETL EECKNICEDG PNGFQVDNYG TQLNAVNNNSL TPQSTKVPSL FEFHGPSWCL TPADRGLCRA NENRFYNSV IGKCRPFKYS GCGNENNFT SKQECLRACK KGFIQRISKG GLIK	
<b>Predicted molecular weight</b>	30 kDa including tags	
<b>Amino acids</b>	29 to 282	
<b>Tags</b>	His tag C-Terminus	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab167711** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

**Applications** SDS-PAGE

## Functional Studies

**Form** Lyophilized

## Preparation and Storage

**Stability and Storage** Shipped at 4°C. Store at 4°C prior to reconstitution. Store at -80°C. Avoid freeze / thaw cycle.  
pH: 7.40  
Constituents: 95% PBS, 5% Trehalose  
This product is an active protein and may elicit a biological response in vivo, handle with caution.

**Reconstitution** Reconstitute the lyophilized protein in sterile deionized water to a final concentration of 400 ug/ml. Solubilize for 30 to 60 minutes at room temperature with occasional gentle mixing. Carrier protein (0.1% HSA or BSA) is strongly recommended for further dilution and long term storage.

## General Info

**Function** Inhibits factor X (X(a)) directly and, in a Xa-dependent way, inhibits VIIa/tissue factor activity, presumably by forming a quaternary Xa/LACI/VIIa/TF complex. It possesses an antithrombotic action and also the ability to associate with lipoproteins in plasma.

**Tissue specificity** Mostly in endothelial cells.

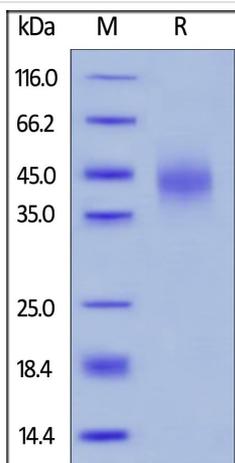
**Sequence similarities** Contains 3 BPTI/Kunitz inhibitor domains.

**Domain** This inhibitor contains three inhibitory domains. The first domain interacts with VIIa and TF, the second one with Xa.

**Post-translational modifications** O-glycosylated.

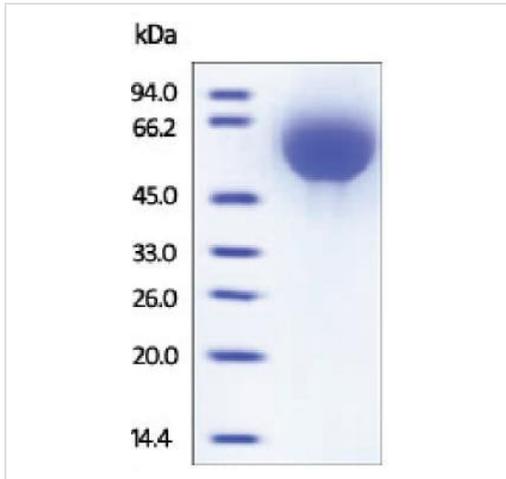
**Cellular localization** Secreted.

## Images



SDS-PAGE - Recombinant human TFPI protein  
(ab167711)

Human TFPI (His Tag) on SDS-PAGE under reducing (R) condition.  
The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.



SDS-PAGE of reduced ab167711 stained overnight with Coomassie Blue.

SDS-PAGE - Recombinant human TFPI protein (ab167711)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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