

# Recombinant TFPI-alpha-(his)C, human



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CAT No. UCT005

LOT No. 2800

0.1 mg/vial

## Product description

This protein is a Kunitz-type serine protease inhibitor that regulates the tissue factor (TF)-dependent pathway of blood coagulation. The coagulation process initiates with the formation of a factor VIIa-TF complex, which proteolytically activates additional proteases (factors IX and X) and ultimately leads to the formation of a fibrin clot. TFPI-alpha inhibits the activated factor X and VIIa-TF proteases in an autoregulatory loop. Alternative splicing of the mRNA results codes for TFPI-1-beta, which is a shorter form of the protein and contains a PGI-anchor.

Reference sequences: NM\_006287  
NP\_006278  
Swiss-prot P10646

Alternative names: tissue factor pathway inhibitor isoform a precursor  
TFPI

Gene ID: 7035

The mature protein of human TFPI-alpha, residues 29 - 304 was over-expressed in HEK293EBNA1 cells and purified to homogeneity. The protein has 2 potential N-linked glycosylation sites and 3 potential O-linked glycosylation sites. The protein contains a C-terminal hexahistidine tag. The calculated molecular weight without glycosylation of recombinant human TFPI-alpha, residues 29 - 304 including hexahistidine tag, is 33.3 kDa. Each vial contains 100 µg TFPI-alpha-(his)C at 1.73 mg/ml.

## Storage and stability

TFPI-alpha-(his)C should be stored at - 80 °C (stable for at least 1 year). The buffer is PBS without preservative. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 2 months).

## Protein sequence

marplctllllmatlagalagsdseedehtiitdtelppklmhsfcafkadd  
gpckaimkr°fniftrqceeÿyggcegnqnrfsleECKmctrndanriik  
ttlqekpdc~eedpgicrgyitryfynnqtkqcerfkyggclgnmnnfetl  
eecknicedgpngfvdygtqlnavnnslltpqstkvpslfefhgpswclt  
padrglcranenrfyynsvigkrcrpfkysgcggnennftskqeclrackgÿ  
qrisgglktkrkrkkqrvkiayeeifvknmaaa

### hhhhh

\*

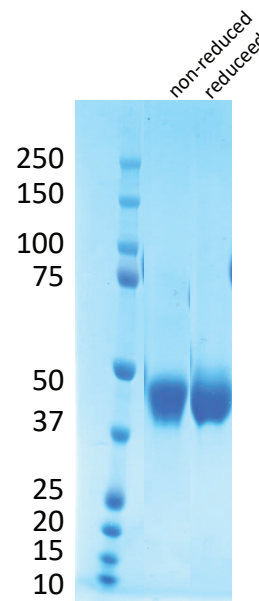


Figure 1  
NuPage gel of T005  
(non)reducing conditions

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