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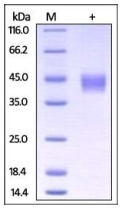
TFPI Recombinant Protein

Cat. No.: 97-069



TFPI Recombinant Protein

Specifications

SPECIES:	Rhesus monkey
SOURCE SPECIES:	HEK293 cells
SEQUENCE:	Asp 29 - Lys 282
FUSION TAG:	His Tag
TESTED APPLICATIONS:	WB
APPLICATIONS:	This recombinant protein can be used for WB. For research use only.
PREDICTED MOLECULAR WEIGHT:	31.1 kDa

Properties

PURITY:	>95% as determined by SDS-PAGE. Endotoxin level is less than 1.0 EU per ug by the LAL method.
PHYSICAL STATE:	Lyophilized
BUFFER:	PBS, pH7.4

STORAGE CONDITIONS:	Lyophilized Protein should be stored at -20˚C or lower for long term storage. Upon reconstitution, working aliquots should be stored at -20˚C or -70˚C. Avoid repeated freeze-thaw cycles.

Additional Info

OFFICIAL SYMBOL:	TFPI
ALTERNATE NAMES:	TFPI,LACI,TFPI1,EPI,TFI
ACCESSION NO.:	Q28864
GENE ID:	613026

Background and References

BACKGROUND:	Tissue factor pathway inhibitor (TFPI) is also known as Extrinsic pathway inhibitor (EPI), Lipoprotein - associated coagulation inhibitor (LACI), is a plasma proteinase inhibitor synthesized by vascular endothelial cells and part of it is associated with glycosaminoglycans of these cells. TFPI is a single-chain polypeptide which can reversibly inhibit Factor Xa (Xa) and Thrombin (Factor IIa). TFPI is a secreted protein with a Nterminal acidic region, three Kunitz (K) domains separated with by two linker regions, and a C-terminal basic region. The first K domain inhibits coagulation factor VIIa complexed to tissue factor (TF); The second K domain inhibits factor Xa; The third K domain binds to heparin; The Cterminal basic region may have several functions. For example, it plays an important role in binding of TFPI to cell surfaces.
REFERENCES:	1) Bajaj MS., et al., 2001, Thromb Haemost., 86:959.
	2) Mine S., et al., 2002, Biochemistry, 41:78.
	3) Witt I., et al., 2002, Hamostaseologie, 22:30–35.