

Datasheet for ABIN7198255

TFPI Protein (His tag)**1** Image[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	TFPI
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This TFPI protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse TFPI Protein (His Tag)(Active)
Sequence:	Met 1-Lys 289
Characteristics:	A DNA sequence encoding the mouse TFPI isoform alpha (NP_035706.1) (Met 1-Lys 289) was expressed with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH ₂ (Anaspec, Catalog # 27114). The IC ₅₀ value is < 0.5 nM, as measured in 100µL reaction mixture containing 1.25 ng trypsin (Sigma, Catalog # T4799), 10 µM substrate, 50 mM Tris, 10 mM CaCl ₂ , 0.15 M NaCl, 0.05% Brij 35, pH 7.5.

Target Details

Target:	TFPI
Alternative Name:	TFPI (TFPI Products)
Background:	<p>Background: Tissue factor pathway inhibitor (TFPI) is the natural inhibitor of TF coagulant and signaling activities. It is a Kunitz-type serine proteinase inhibitor that down-regulates tissue factor-initiated blood coagulation. With its Kunitz domains, TFPI exhibits significant homology with human inter-alpha-trypsin inhibitor and bovin basic pancreatic trypsin inhibitor. TFPI is the natural inhibitor of TF coagulant and signaling activities. The importance of TFPI in the regulation of blood coagulation is emphasized by how its activity is modulated in human disease. In a factor (F) Xa-dependent feedback system, TFPI binds directly and inhibits the TF-FVII/FVIIa complex. Normally, TFPI exists in plasma both as a full-length molecule and as variably carboxy-terminal truncated forms. TFPI also circulates in complex with plasma lipoproteins. The levels and the dual inhibitor effect of TFPI on FXa and TF-FVII/FVIIa complex offers insight into the mechanisms of various pathological conditions triggered by TF. TFPI may play an important role in modulating TF-induced thrombogenesis and it may also provide a unique therapeutic approach for prophylaxis and/or treatment of various diseases. In addition, Studies have shown that TFPI exhibits antiangiogenic and antimetastatic effects in vitro and in vivo. In animal models of experimental metastasis, both circulating and tumor cell-associated TFPI are shown to significantly reduce tumor cell-induced coagulation activation and lung metastasis.</p> <p>Synonym: A630013F22Rik,AW552122,EPI,LACI</p>
Molecular Weight:	31 kDa
NCBI Accession:	NP_035706

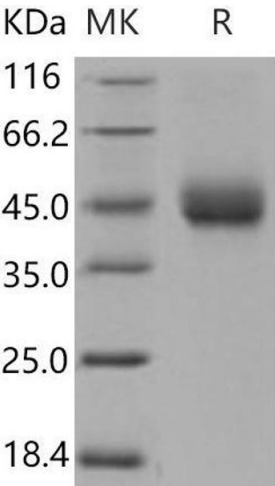
Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.

Handling

Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Images



Western Blotting

Image 1.