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TFPI Protein (His tag)



Overview

Quantity:	50 μg
Target:	TFPI
Origin:	Human
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 Human TFPI Protein (His Tag)(Active)
Sequence:	Met 1-Lys 282
Characteristics:	A DNA sequence encoding the human TFPI (NP_006278.1) (Met 1-Lys 282) was expressed with a C-terminal polyhistidine tag.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg 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)-NH2 (Anaspec, Catalog#27114). The IC50 value is < 0.4 nM, as measured in 100μ L reaction mixture containing 1.25 ng trypsin (Sigma, Catalog#T4799), 10μ M substrate, 50 mM Tris, 10μ M CaCl2, 0.15μ M NaCl, 0.05% Brij-35, pH 7.5.

Target Details

Target:	TFPI
Alternative Name:	TFPI (TFPI Products)
Background:	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-trypson 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.
	Synonym: EPI,LACI,TFI,TFPI1
Molecular Weight:	30.6 kDa
NCBI Accession:	NP_006278
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.

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.