

Product Data Sheet

TFPI2 Protein, Human (HEK293, C-His)

Cat. No.:	HY-P71358A
Synonyms:	Tissue Factor Pathway Inhibitor 2; TFPI-2; Placental Protein 5; PP5; TFPI2
Species:	Human
Source:	HEK293
Accession:	P48307 (D23-K213)
Gene ID:	7980
Molecular Weight:	Approximately 18-32 kDa

PROPERTIES					
AA Sequence					
	DAAQEPTGNN	AEICLLPLDY	GPCRALLLRY	Y Y D R Y T Q S C R	
	QFLYGGCEGN	ANNFYTWEAC	DDACWRIEKV	PKVCRLQVSV	
	DDQCEGSTEK	YFFNLSSMTC	EKFFSGGCHR	NRIENRFPDE	
	АТСМGFСАРК	KIPSFCYSPK	DEGLCSANVT	RYYFNPRYRT	
	CDAFTYTGCG	GNDNNFVSRE	DCKRACAKAL	К	
Biological Activity	Measured by its ability to	inhibit proliferation of A549	human lung carcinoma cells	. The ED ₅₀ this effect is 43	
	corresponding to a specif	ic activity is 2.32×10 ⁴ units/r	ng.	50	
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4.				
Endotoxin Level	<1 EU/µg, determined by	LAL method.			
Reconsititution	It is not recommended to	reconstitute to a concentrat	tion less than 100 μg/mL in c	ldH ₂ O. For long term stora	
	recommended to add a ca	arrier protein (0.1% BSA, 5%	HSA, 10% FBS or 5% Trehald	ose).	
Storage & Stability	Stored at -20°C for 2 years	s. After reconstitution, it is st	able at 4°C for 1 week or -20	°C for longer (with carrier)	
	recommended to freeze a	liquots at -20°C or -80°C for	extended storage.		
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Shipping	Room temperature in cor	tinental US; may vary elsew	here.		
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DESCRIPTION Background The TFPI2 protein may have a crucial role in the regulation of plasmin-mediated matrix remodeling, suggesting its involvement in the intricate processes that govern extracellular matrix dynamics. TFPI2 exhibits inhibitory effects on trypsin, plasmin, factor VIIa/tissue factor, and weakly on factor Xa, indicating its potential influence on various proteolytic activities involved in coagulation and fibrinolysis. Notably, TFPI2 does not affect thrombin. It is found in a complex with ABCB1, TFPI2,

and PPP2R3C, leading to the dephosphorylation of ABCB1. This complex formation hints at potential regulatory mechanisms involving TFPI2 in modulating the phosphorylation state of ABCB1, which could have broader implications for cellular processes. Further exploration into the specific mechanisms and downstream effects of TFPI2's inhibitory functions and its interactions within the ABCB1-containing complex could provide valuable insights into its multifaceted role in the regulation of hemostasis and matrix remodeling.

Caution: Product has not been fully validated for medical applications. For research use only.

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