Active Recombinant Human TFPI protein, His-tagged

Cat. No. TFPI-2145H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TFPI protein(NP_006278.1)(Met1-Lys282), fused with His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Met1-Lys282
Form	Lyophilized from sterile PBS, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Bio-activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is < 0.4 nM, as measured in 100μL reaction mixture containing 1.25 ng trypsin, 10 μM substrate, 50 mM Tris, 10 mM CaCl2, 0.15 M NaCl, 0.05% Brij-35, pH 7.5.
Molecular Mass	The secreted recombinant human TFPI comprises 265 amino acids with a predicted molecular mass of 30.6 kDa. As a result of glycosylation, the apparent molecular mass of rhTFPI is approximately 42-45 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method

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Purity	> 85 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TFPI tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor) [Homo sapiens]
Official Symbol	TFPI
Synonyms	TFPI; tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor); LACI; tissue factor pathway inhibitor; EPI; extrinsic pathway inhibitor; TFI; TFPI1; anti-convertin;
Gene ID	7035
mRNA Refseq	NM_001032281
Protein Refseq	NP_001027452
MIM	152310
UniProt ID	P10646

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