

Human CellExp™ TFPI2, human recombinant

CATALOG #: 7481-10 10 µg

ALTERNATE NAMES: TFPI2, PP5, REF1

SOURCE: HEK 293 cells (Asp 23 – Lys 213)

PURITY: ≥ 95% by SDS-PAGE gel

MOL. WEIGHT: This protein is fused with 6xHis tag at the N-terminus, has a calculated MW of 22.7 kDa. The predicted N-terminus is Asp 23. DTT-reduced Protein migrates as 26-32 kDa due to glycosylation.

ENDOTOXIN LEVEL: <1 EU/µg by LAL method

FORM: Lyophilized

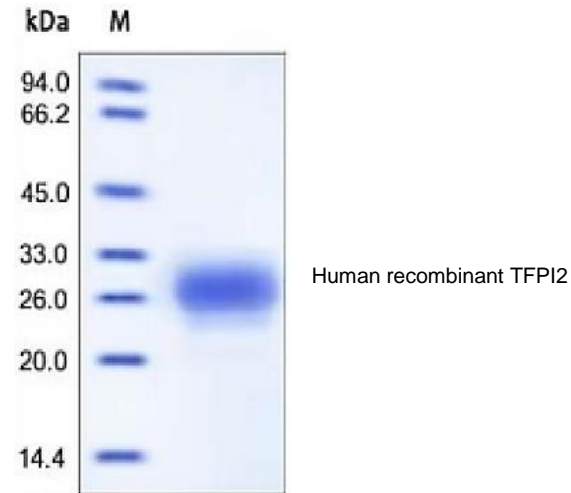
FORMULATION: Lyophilized from 0.22 µm filtered solution in 20 mM MES and 100 mM NaCl, pH 6.5. Normally Mannitol or Trehalose is added as protectants before lyophilization.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: Tissue Factor Pathway Inhibitor 2 (TFPI-2), also known as placental protein 5 (PP5) and retinal pigment epithelial cell factor 1 (REF-1), is a member of the Kunitz-type serine proteinase inhibitor family, is a structural homologue of tissue factor pathway inhibitor (TFPI). TFPI2 is highly abundant in the full-term placenta and widely expressed in umbilical vein endothelial cells, liver, placenta, heart, pancreas, and maternal serum at advanced pregnancy. TFPI-2 may play a role in the regulation of plasmin-mediated matrix remodeling. Inhibits trypsin, plasmin, factor VIIa/tissue factor and weakly factor Xa and has no effect on thrombin. Reduced synthesis of TFPI-2 has been related to numerous pathophysiological processes such as inflammation, angiogenesis, atherosclerosis, retinal degeneration and tumor growth / metastasis.

BIOLOGICAL ACTIVITY: Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca - RPKPVE - Nval - WRK (Dnp) - NH2. The IC₅₀ value is < 2.5 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.



RELATED PRODUCTS:

- Human CellExp™ TFPI, human recombinant (Cat. No. 7453-10)
- ApoA-1, human recombinant (Cat # 4693-20, -100, -1000)
- ApoA-1, rat recombinant (Cat # 4695-20, -100, -1000)
- Apo-D, human recombinant (Cat # 4326-10, -1000)
- APO-J / Clusterin (Cat. No. 4325-10, -500)
- Apo-SAA, human recombinant (Cat # 4324-50, -500, -1000)
- ApoE2, human recombinant (Cat # 4760-50, -100, -500, -1000, -5000)
- ApoE3, human recombinant (Cat # 4696-50, -100, -500, -5000)
- ApoE4, human recombinant (Cat # 4699-50, -100, -500, -1000, -5000)
- Apolipoprotein CI, Human Plasma (Cat # 4703-100)
- Apolipoprotein CII, Human Plasma (Cat # 4704-50)
- Apolipoprotein CIII, Human Plasma (Cat # 4706-100)

FOR RESEARCH USE ONLY! Not to be used in humans.

