

# Human TFPI-2 Protein

Cat. No. TFP-HM102



## Description

Source	Recombinant Human TFPI-2 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Asp23-Lys213.
Accession	NP_006519.1
Molecular Weight	The protein has a predicted MW of 22.9 kDa. Due to glycosylation, the protein migrates to 30-35 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Tissue factor pathway inhibitor-2 (TFPI-2) has previously been characterized as an endogenous anticoagulant. TFPI-2 is expressed in the vast majority of cells, mainly secreted into the extracellular matrix. Moreover, in sputum from cystic fibrosis patients TFPI-2 C-terminal fragments are generated and found associated with immunoglobulins. Together our data describe a previously unknown host defense mechanism and therapeutic importance of TFPI-2 against invading Gram-negative bacterial pathogens.

## Assay Data

### Bis-Tris PAGE



Human TFPI-2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### Bioactivity Data

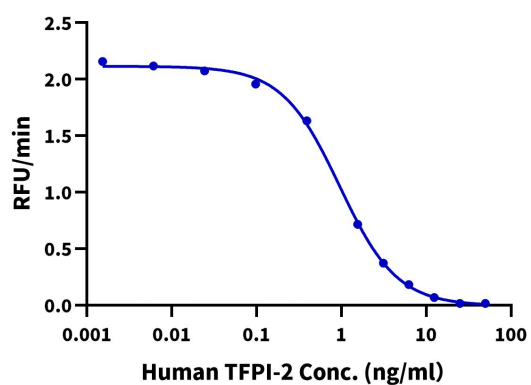
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### Assay Data

Recombinant Human TFPI-2 Activity



Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, the IC<sub>50</sub> value is < 5 nM.