

Recombinant Mouse TFPI Protein

Catalog No.: RP01667 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	21788	O54819

Tags

C-6His

Synonyms

EPI; LACI; A630013F22Rik[TFPI]

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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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.

Basic Information

Description

Recombinant Mouse TFPI Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu 29-Asn306) of mouse TFPI (Accession #NP_035706.1) fused with and a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH₂(RD, Catalog # ES002). The IC₅₀ value is <0.26 nM, as measured under the described conditions.

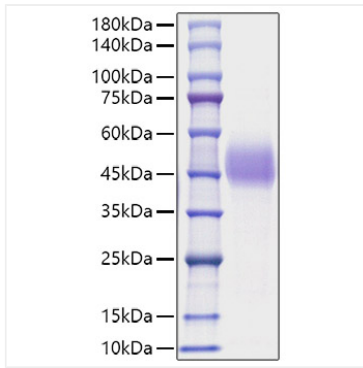
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

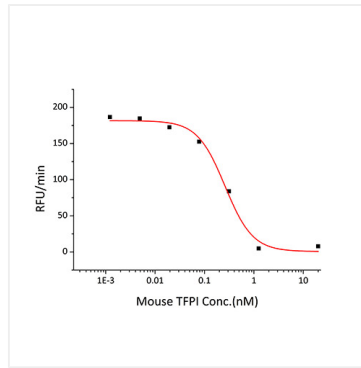
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse TFPI Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45 kDa.



Recombinant Mouse TFPI inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH₂ (RD, Catalog # ES002). The IC₅₀ value is < 0.26 nM, as measured under the described conditions.