

Recombinant Mouse TFPI Protein

Catalog No.: RP01667

Sequence Information

Species	Gene ID
Mouse	21788

Swiss Prot	Tags
O54819	C-6His

Synonyms

EPI; LACI; A630013F22Rik; TFPI

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
32.53 kDa	45–55 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

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.

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.

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.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

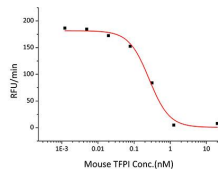
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

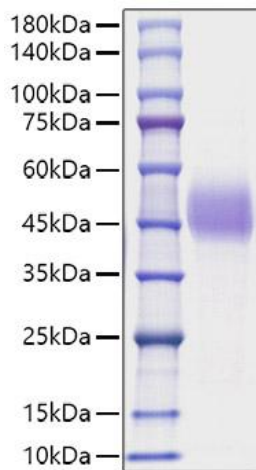
Contact

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Validation Data



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.



Recombinant Mouse TFPI Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.