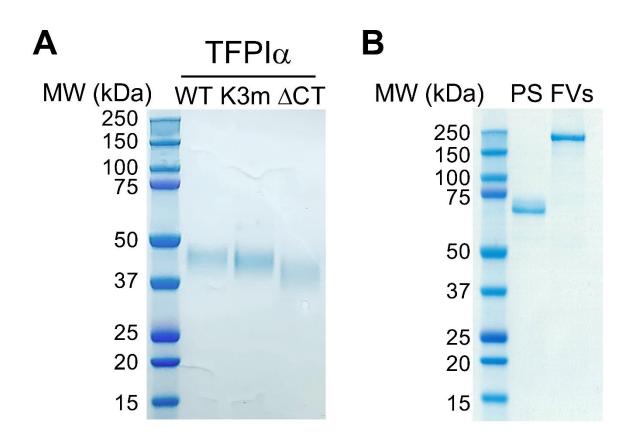
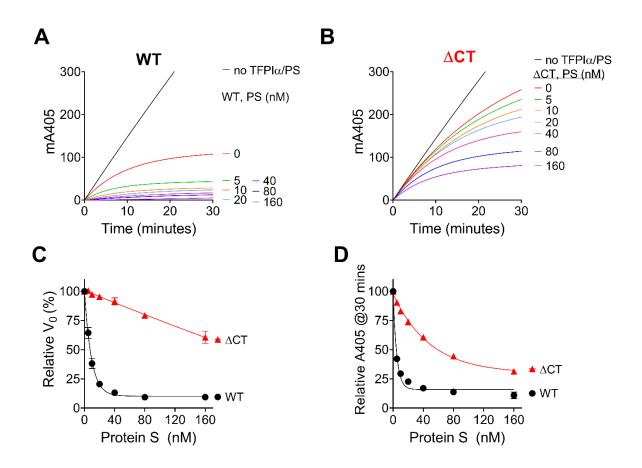
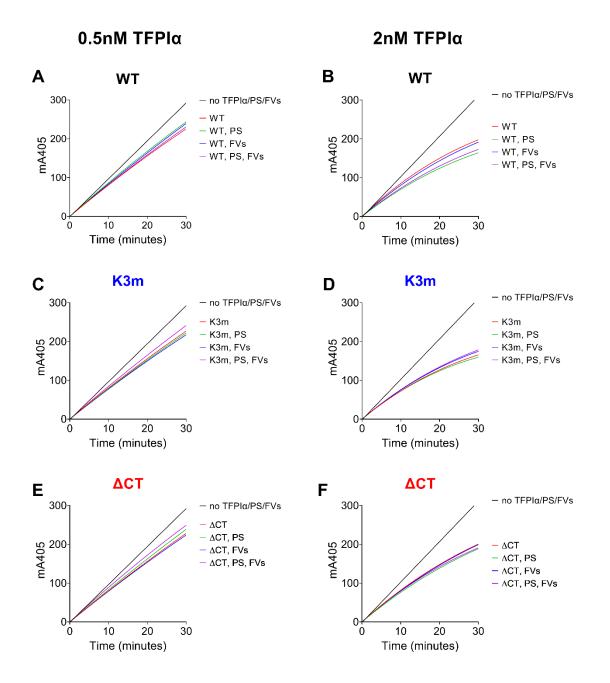
Supplementary results



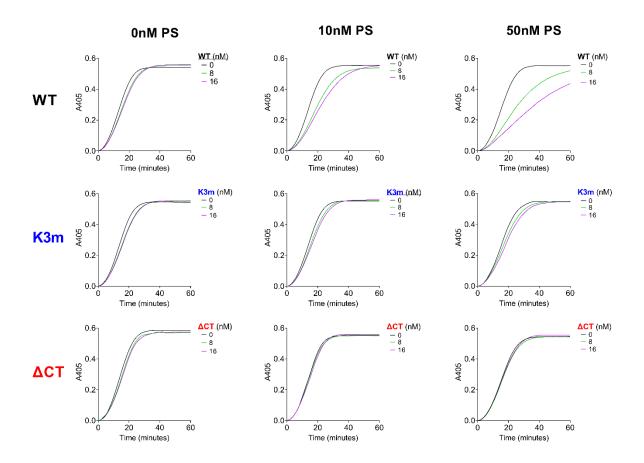
Supplemental Figure 1. WT TFPIα and its variants, protein S and FV-short. Purified WT TFPIα and TFPIα variants (A), protein S and FV-short (B) were analysed by SDS-PAGE, 4-12% gradient gel stained with Instant Blue under unreduced conditions. PS, protein S; FVs, FV-short.



Supplemental Figure 2. Enhancement of 5nM WT TFPI α and TFPI α Δ CT by protein S in the inhibition of FXa. FXa activity (0.5nM) was followed in real-time through cleavage of S-2765 (200 μ M) at 405 nm in the presence of 25 μ M phospholipids and absence or presence (5nM) of WT TFPI α (A) or TFPI α Δ CT (B) and increasing concentrations (0-160 nM) of protein S. Results from representative experiments are shown (n = 3). (C) V₀ was calculated for each curve and plotted against protein S concentration. Relative V₀ was calculated as percentage of the V₀ obtained for TFPI α alone. (D) A405 obtained at 30 minutes of FXa inhibition was plotted against concentration of protein S. Relative A405 was calculated as a percentage of the A405 measured for TFPI α alone. Results are given as mean ± SD.



Supplemental Figure 3. Enhancement of TFPI α by protein S and FV-short in the inhibition of FXa in the absence of phospholipids. FXa activity (0.5nM) was followed in real-time through cleavage of S-2765 (200 μ M) at 405 nm. The experiments were performed in the presence of WT TFPI α (A-B), TFPI α K3m (C-D) or TFPI α Δ CT (E-F) and in the presence and absence of protein S (10nM) and/or FV-short (5nM). Results from representative experiments are shown (n = 2). The experiments were performed at either 0.5nM (A, C, E) or 2nM (B, D, F) TFPI α .



Supplementary Figure 4. The effect of increasing concentrations of TFPI α and protein S on FXa-catalysed prothrombin activation in the presence of FVa. FVa (1nM) was incubated with 0-16nM WT TFPI α , TFPI α K3m or TFPI α Δ CT in the presence of 0-50nM protein S. Prothrombin (1 μ M), phospholipid membranes and 117 μ M substrate S-2238 was added to TFPI α /FVa/protein S, followed by initiation of prothrombin activation by the addition of FXa (0.6pM). The thrombin activity was measured through cleavage of the chromogenic substrate at 405 nm over time. A representative experiment is shown (n=3). PS, protein S.