

Supplementary Table 1 Primers

Species	Gene	Gene ID	Primer (5'-3')
Human	ACTIN	60	Forward: ATCATGTTTGAGACCTTCAA Reverse: AGATGGGCACAGTGTGGGT
Human	IL-6	3569	Forward: TTTTGTACTCATCTGCACAGC Reverse: GGATTCAATGAGGAGACTTGC
Human	MMP-1	4312	Forward: ACGCCAGATTTGCCAAGAG Reverse: TTGACCCTCAGAGACCTTGGT

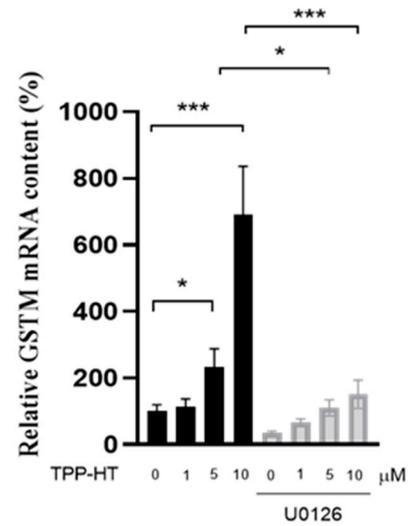


Figure S1 **TPP-HT pretreatment contributes to antioxidant responses via activating Erk signaling pathway.** HAECs were treated with or without TPP-HT (1, 5, 10 μM) for 24 h in the presence of Erk inhibitor U0126 (10 μM) pretreatment. mRNA level of GSTM. *p< 0.05, ***p< 0.001.

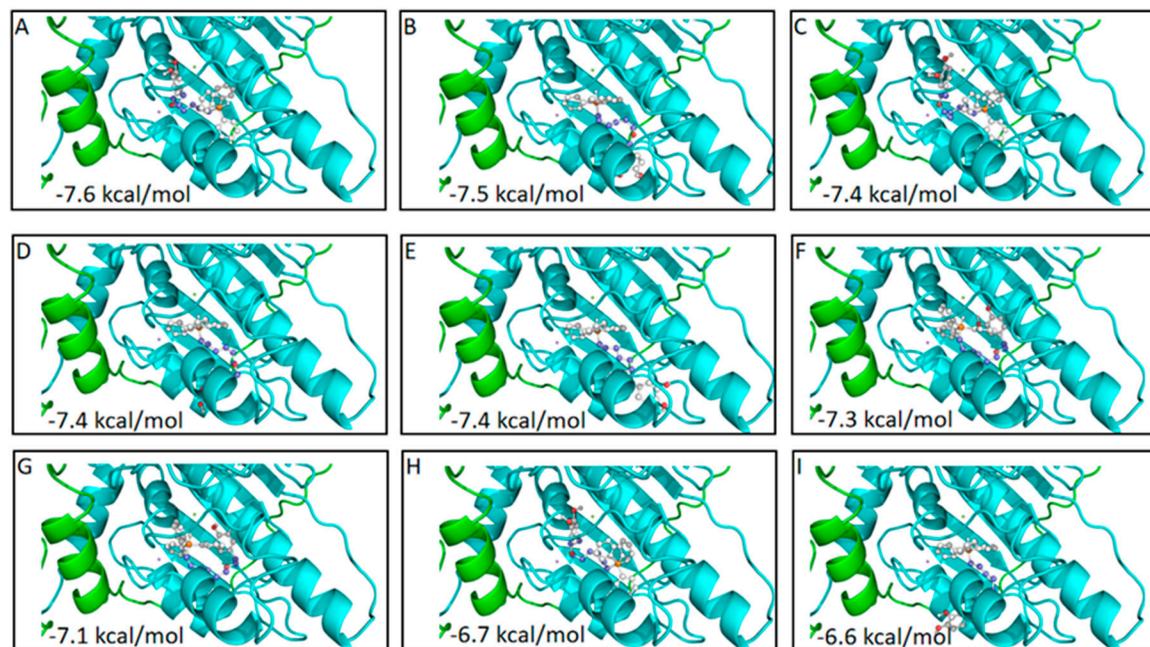


Figure S2 **TPP-HT may target mitochondrial ETC complex II.** Analysis of ligand (TPP-HT) binding energy in the protein SDHB (mitochondrial respiratory chain complex II) (PDB code: 7KCM)

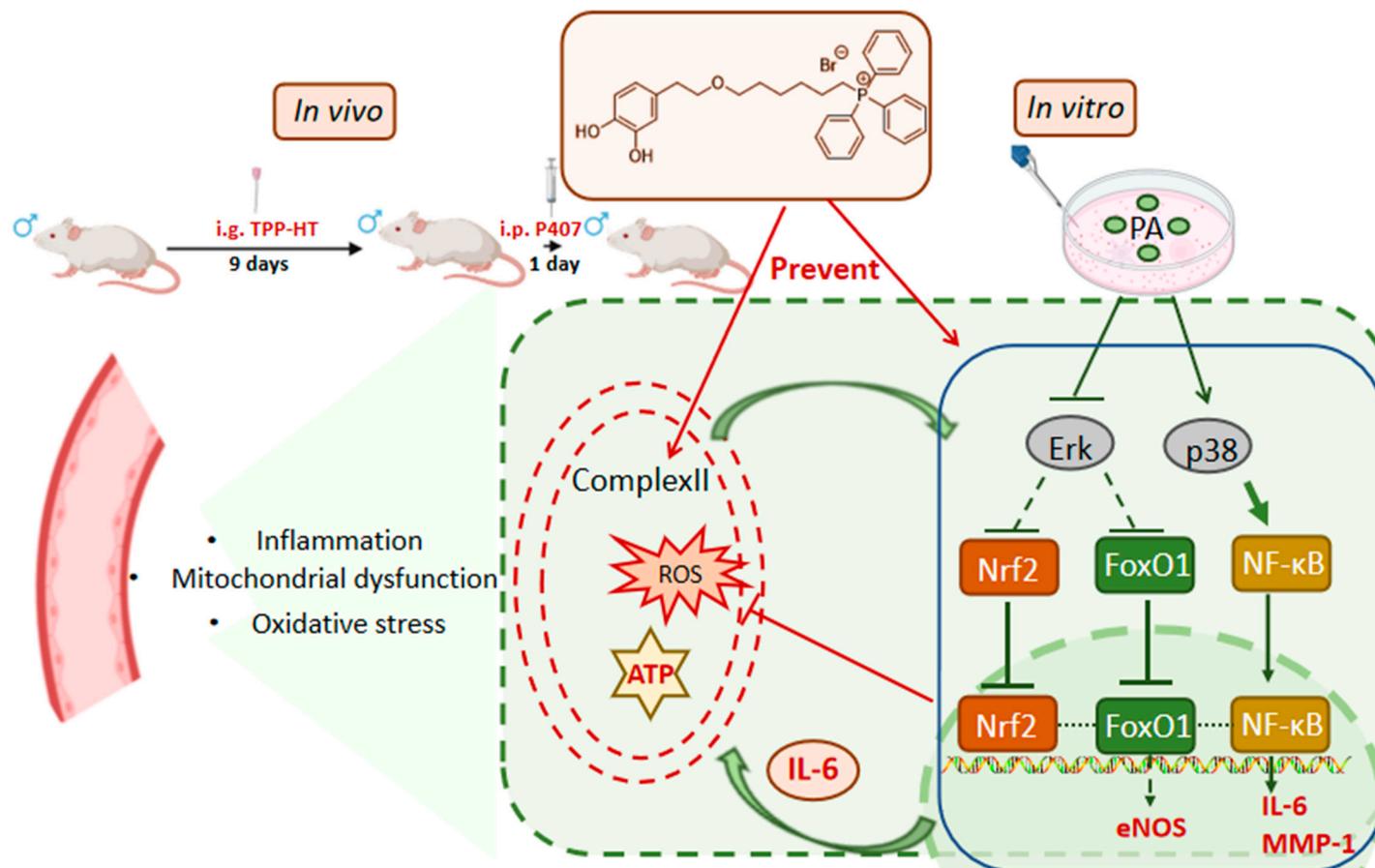


Figure S3 **Proposed model for the protective mechanism of TPP-HT.** TPP-HT activates FoxO1 and Nrf2 signaling pathway, also may directly promote Complex II (SDHB) expression, thereby prevents ROS generation, blocks inflammatory response by inhibiting p38/NFκB signaling pathway and eventually attenuates PA-induced endothelial injury.