

Supplemental Information

Structural and activity characterization of human PHPT1 after oxidative modification

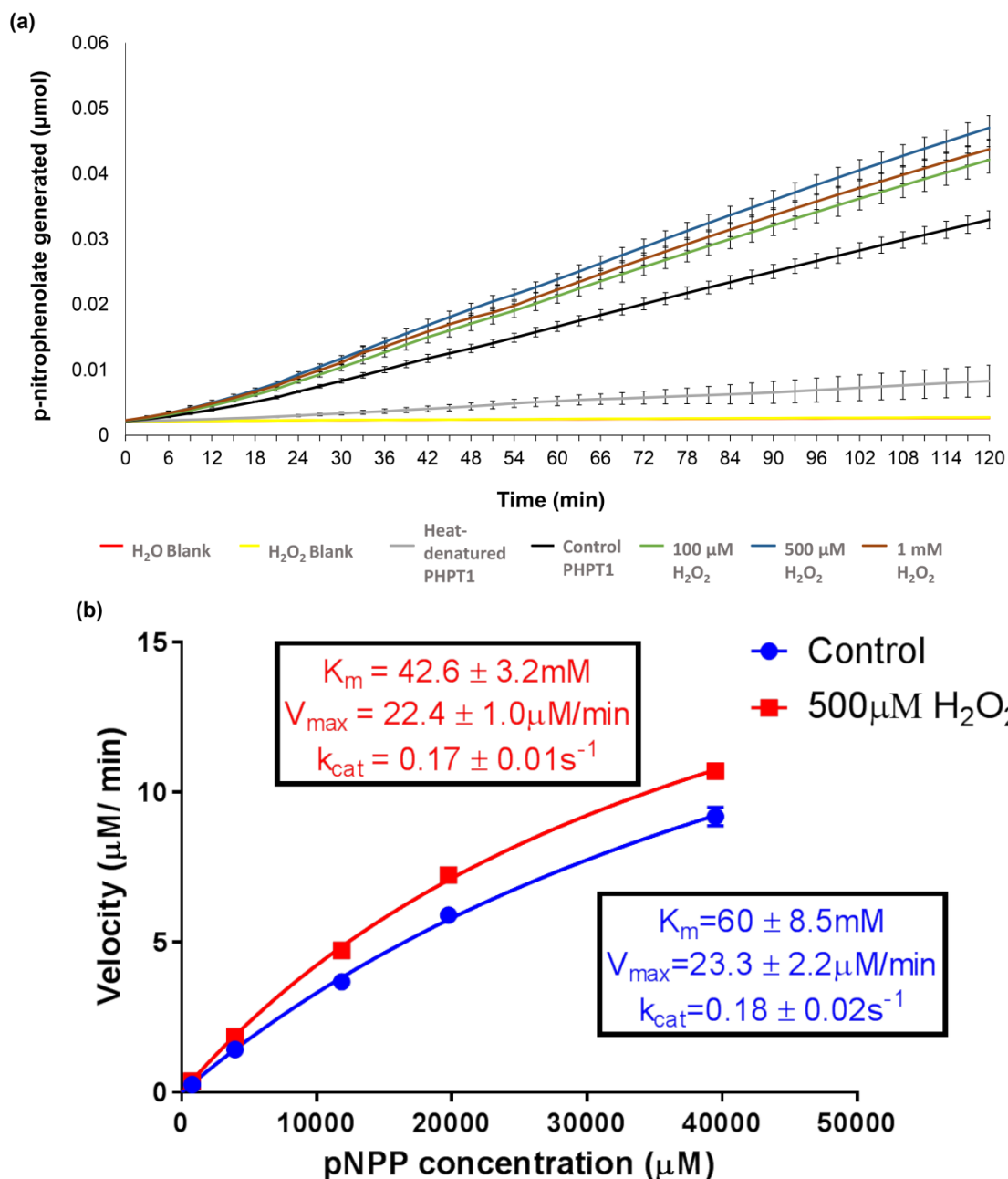
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Supplemental Figure 1. Colorimetric phosphatase activity assay results using the p-nitrophenyl phosphate (pNPP) substrate for PHPT1 before and after H₂O₂ treatment. **(a)** Representative colorimetric assay reading over 2 h at 5 mM initial pNPP concentration where error bars represent standard deviation. Error bars represent standard deviation of plated and technical replicates (n=9). **(b)** Nonlinear regression using the Michaelis-Menten equation was performed for control and 500 μM H₂O₂-treated PHPT1 with a substrate concentration range from 0.8mM-40mM. K_m , V_{max} , and k_{cat} values are shown with error representing 95% confidence intervals.