

S3 Fig. Thermal stability of PaDHPAO. Fluorescence changes of a SYPRO Orange dye 15 (Invitrogen, USA) in the presence of three PaDHPAO samples including apoPaDHPAO, 16 activated PaDHPAO, and activated PaDHPAO plus ascorbic acid were monitored using a real-17 time PCR machine with temperature increase from 25-95 °C with a constant increment of 1 18 °C/min. The normalized (A) and derivative (B) curves of thermal stability showed that the 19 melting temperature (T<sub>m</sub>) of three PaDHPAO samples, apoPaDHPAO (yellow), activated 20 21 PaDHPAO (cyan), and activated PaDHPAO plus ascorbic acid (dark blue), are in a similar temperature range of 50-55 °C. 22

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