

Electronic Supplementary Information (ESI)

Photostabilization of Endogenous Porphyrins: Excited State Quenching by Fused Ring Cyanoacrylates.

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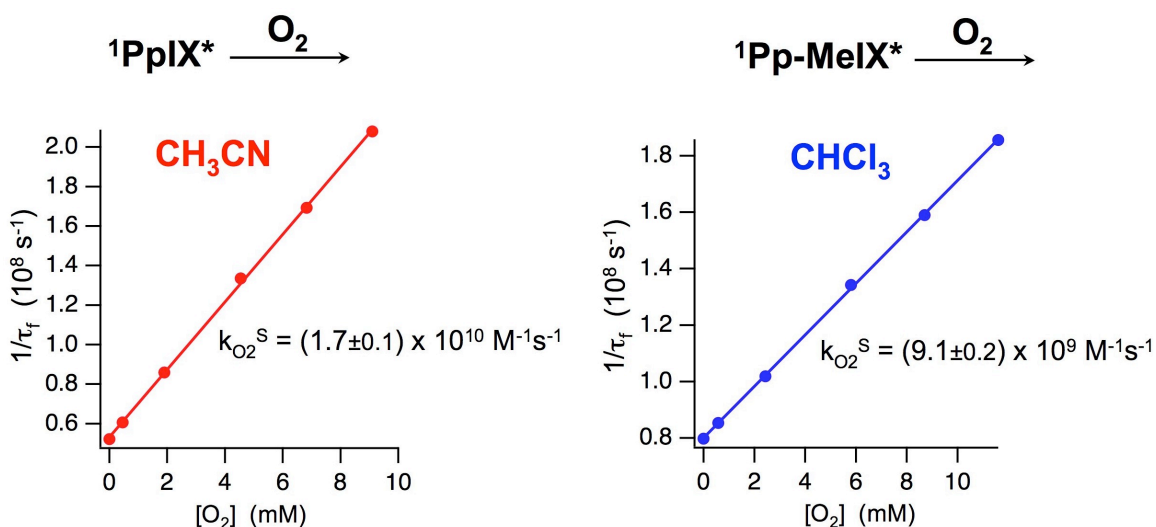


Fig. S1 Determination of the bimolecular quenching rate constant k_q^S of quenching of PpIX and Pp-MeIX fluorescence by molecular oxygen from the slope of the plot of the inverse fluorescence lifetime vs. the dissolved oxygen concentration.

$\lambda_{ex} = 496 \text{ nm}$; $\lambda_{em} = 630 \text{ nm}$.

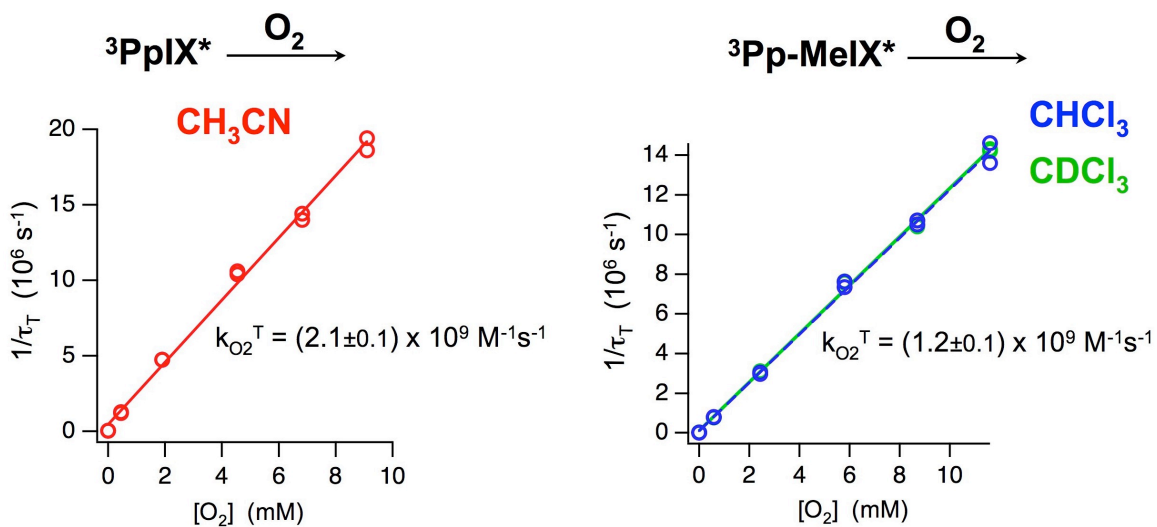


Fig. S2 Determination of the bimolecular quenching rate constants k_{q}^{T} of quenching of PpIX and Pp-MeIX triplet states by molecular oxygen from the slope of the plot of the inverse triplet lifetime (monitored at 440 nm) vs. the dissolved oxygen concentration. $\lambda_{\text{ex}} = 532 \text{ nm}$.

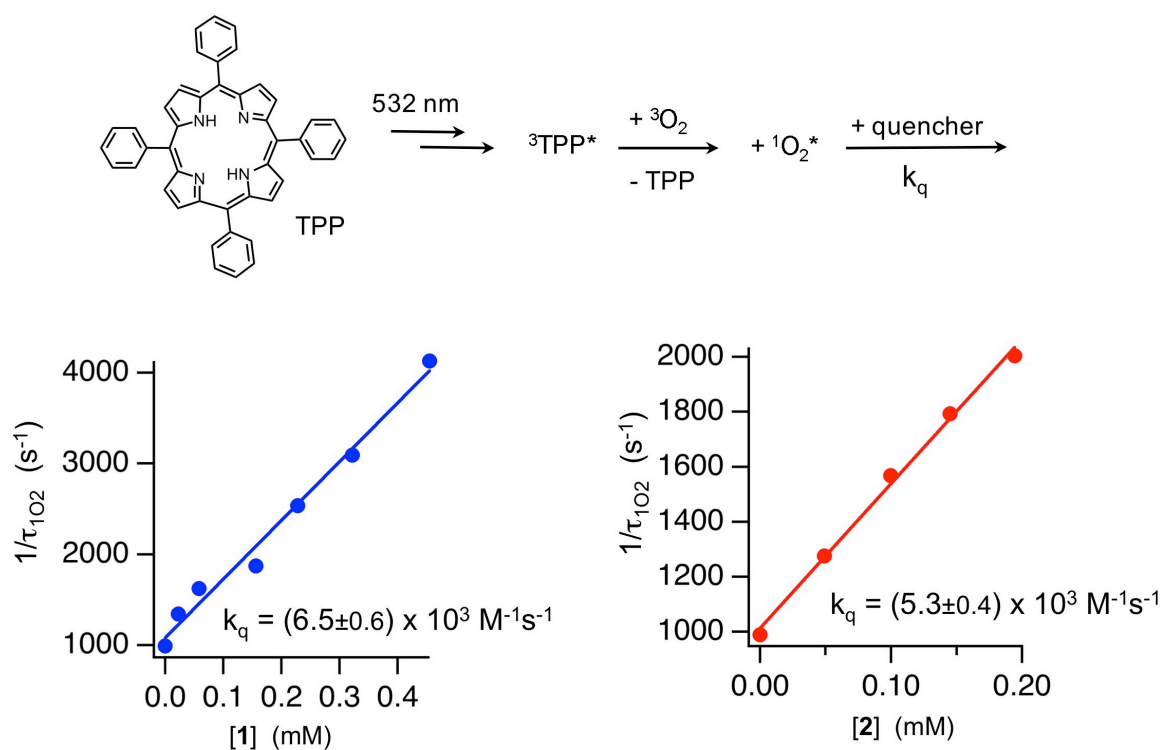


Fig. S3 Determination of the bimolecular quenching rate constants k_q of quenching of singlet oxygen ($^1\text{O}_2$) by **1** and **2** from the slope of the plot of the inverse singlet oxygen lifetime (monitored by phosphorescence at 1270 nm) vs. the concentration of **1** and **2**. Tetraphenylporphyrin (TPP) was used as $^1\text{O}_2$ sensitizer with $\lambda_{\text{ex}} = 532 \text{ nm}$.