

Supporting information for

Anti-Viral Photodynamic Inactivation of T4-like Bacteriophage as a Mammalian Virus Model in Blood

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1. NMR spectroscopy for all compounds

Tri-Py(+)-Me

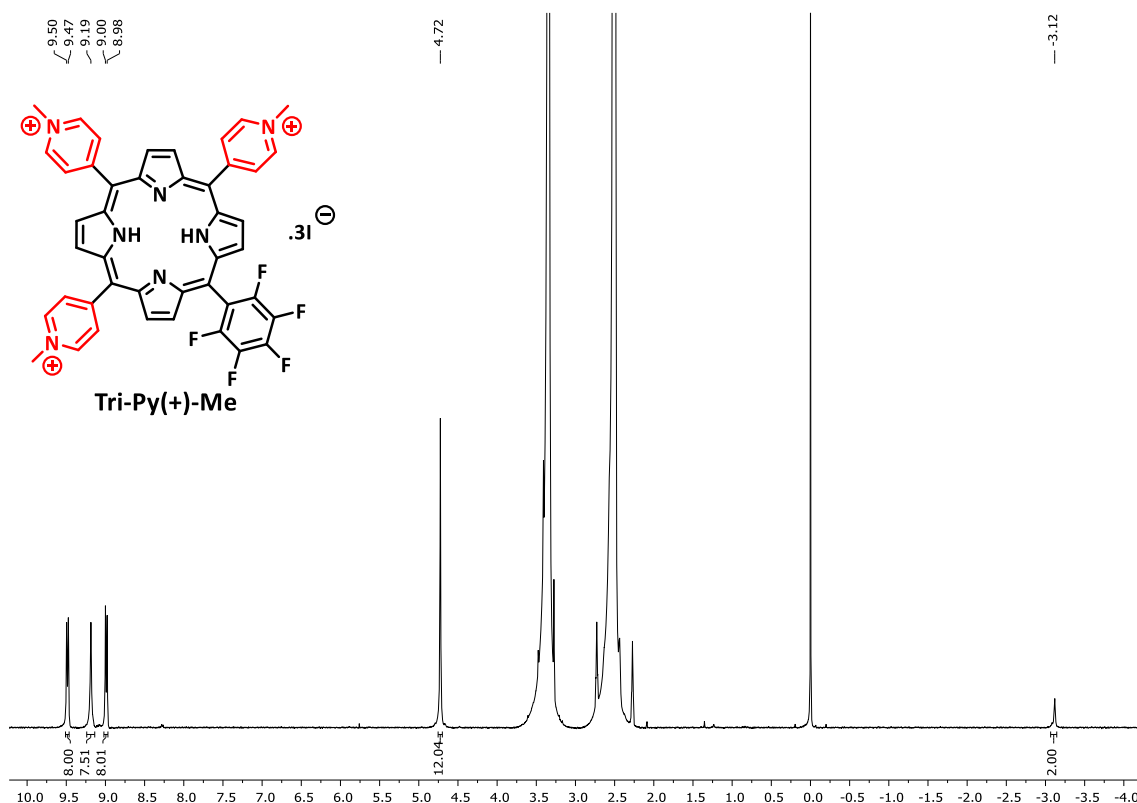


Figure S1. Spectrum of ^1H NMR of **Tri-Py(+)-Me** in deuterated $\text{DMSO-}d_6$. The non-integrated peaks are from solvents or internal reference signals. ^1H NMR (300.13 MHz, $\text{DMSO-}d_6$): δ -3.12 (s, 2H, NH), 4.72 (s, 12H, CH_3), 8.99 (d, $J = 6.7$ Hz, 6H, Py-*o*-H), 9.19 (s, 8H, β -H), 9.48 (d, $J = 6.7$ Hz, 6H, Py-*m*-H) ppm.

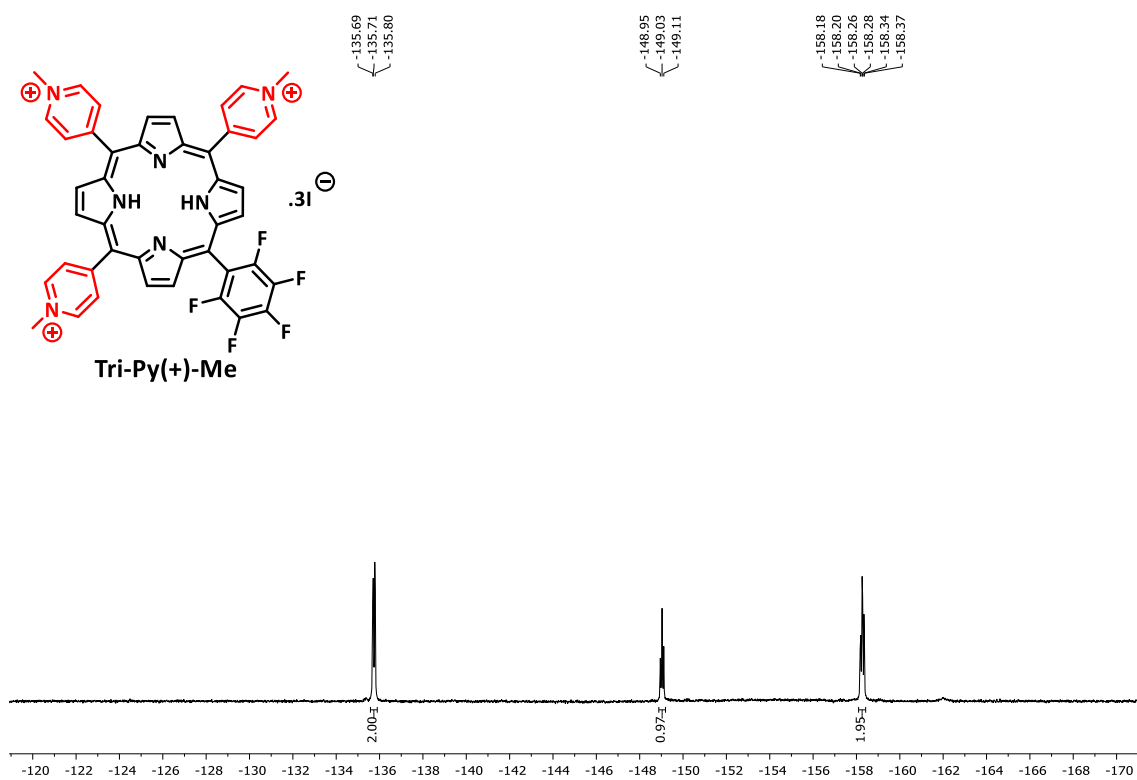


Figure S2. Spectrum of ^{19}F NMR of **Tri-Py(+)-Me** in deuterated $\text{DMSO-}d_6$. The non-integrated peaks are from solvents or internal reference signals. ^{19}F NMR (282.38 MHz, $\text{DMSO-}d_6$): δ -158.27 (td, $J = 24.6$, 6.4 Hz, 2F, *o*-F), -149.03 (t, $J = 22.4$ Hz, 1F, *p*-F), -135.74 (dd, $J = 24.6$, 6.4 Hz, 2F, *m*-F) ppm.

Tetra-Py(+)-Me

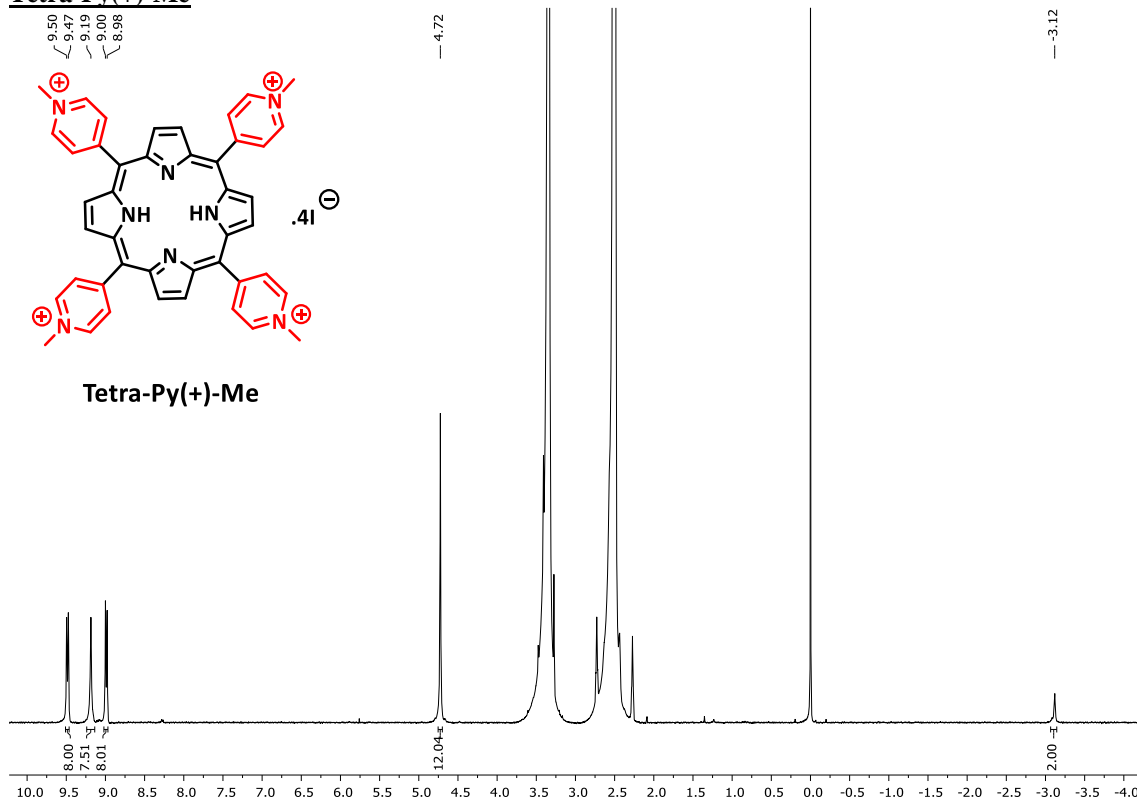


Figure S3. Spectrum of ^1H NMR of **Tetra-Py(+)-Me** in deuterated DMSO. The non-integrated peaks are from solvents or internal reference signals. ^1H NMR (300.13 MHz, $\text{DMSO-}d_6$): δ -3.12 (s, 2H, NH), 4.72 (s, 12H, CH_3), 8.99 (d, $J = 6.7$ Hz, 6H, Py-*o*-H), 9.19 (s, 8H, β -H), 9.49 (d, $J = 6.7$ Hz, 6H, Py-*m*-H) ppm.

Tetra-S-Py(+)-Me

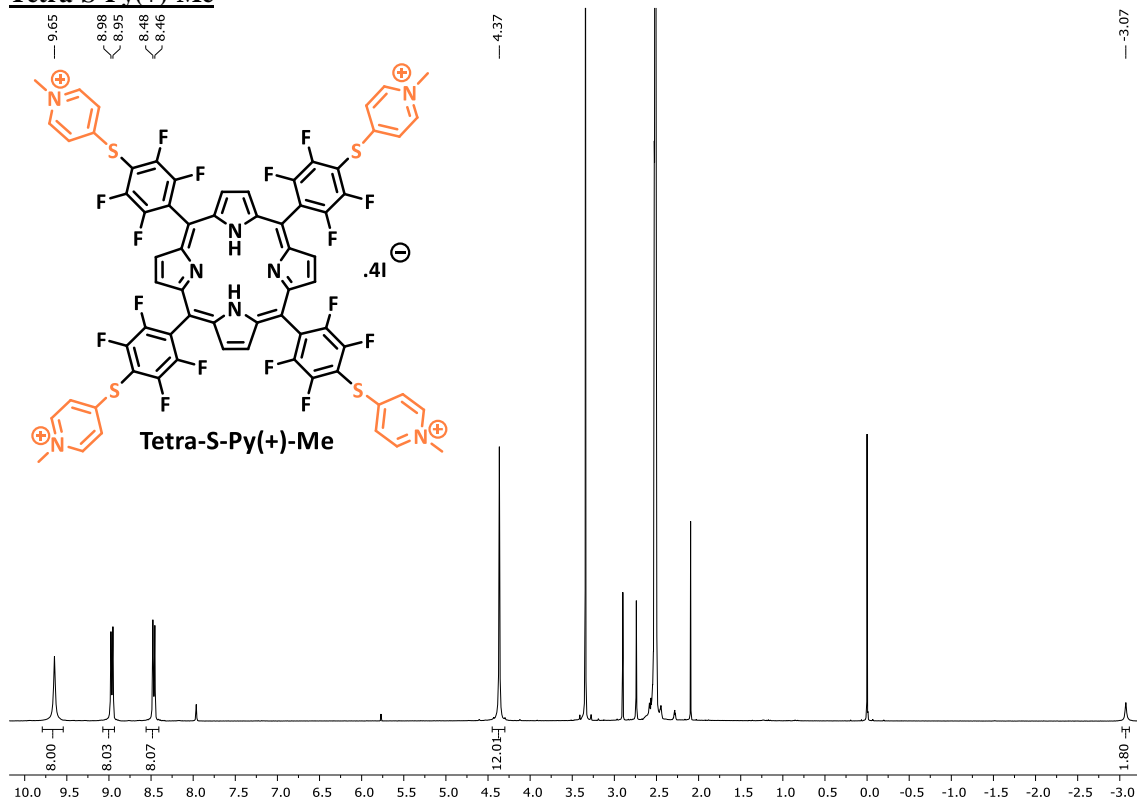


Figure S4. Spectrum of ^1H NMR of **Tetra-S-Py(+)-Me** in deuterated DMSO. The non-integrated peaks are from solvents or internal reference signals. ^1H NMR (300.13 MHz, $\text{DMSO-}d_6$): δ -3.07 (s, 2H, NH),

4.37 (s, 12H, CH₃), 8.47 (d, $J = 7.1$ Hz, 8H, Py-*o*-H), 8.96 (d, $J = 7.1$ Hz, 8H, Py-*m*-H), 9.65 (s, 8H, β -H) ppm.

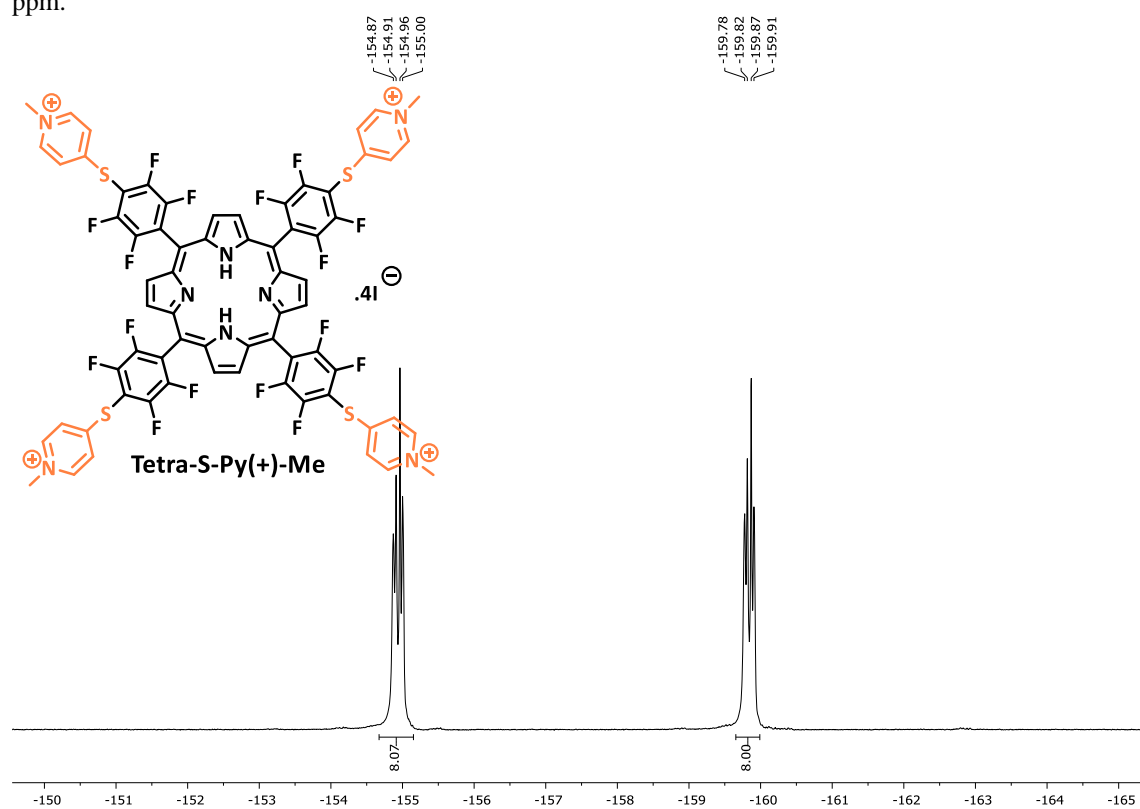


Figure S5. Spectrum of ^{19}F NMR of **Tetra-S-Py(+)-Me** in DMSO- d_6 . ^{19}F NMR (282.38 MHz, DMSO- d_6): δ -159.85 (dd, $J = 9.9$ and 28.2 Hz, 8F, Ar-*o*-F), -154.94 (dd, $J = 9.9$ and 28.2 Hz, 8F, Ar-*m*-F) ppm.