Supplementary Information

for

Pt(II) N-confused porphyrin: An expanded pyrrole that affords stable π-anion

Dong-Hoon Won, Motoki Toganoh, Hidemitsu Uno, and Hiroyuki Furuta*

Table of Contents

Figure S1. $^1$H NMR spectrum of 1-Pt in CDCl$_3$ ................................................................. S2
Figure S2. $^1$H NMR spectrum of 2-Pt in CDCl$_3$ ................................................................. S2
Figure S3. $^1$H NMR spectrum of 3 in CDCl$_3$ ........................................................................ S3
Figure S4. $^1$H NMR spectrum of 3-Pt in CDCl$_3$ ................................................................. S3
Figure S5. pH titration curves for 1-Pt and 1-Cu ................................................................. S4
Figure S6. Packing diagram of Bu$_4$N$^+$(1-Pt$^-$) ................................................................. S5
Figure S7. Calculated charge density for 1-Pt and 1-Pt$^-$ ..................................................... S6
**Figure S1.** $^1$H NMR spectrum of 1-Pt in CDCl$_3$.

![1H NMR spectrum of 1-Pt in CDCl3](image1.png)

**Figure S2.** $^1$H NMR spectrum of 2-Pt in CDCl$_3$.

![1H NMR spectrum of 2-Pt in CDCl3](image2.png)
Figure S3. $^1$H NMR spectrum of 3 in CDCl$_3$.

Figure S4. $^1$H NMR spectrum of 3-Pt in CDCl$_3$.
**Figure S5.** pH titration curves for 1-Pt and 1-Cu. Titration was performed in 3.5% sodium dodecyl sulfate by adjusting the pH with HCl-NaOH; [1-Pt] = ~2 x 10^{-5} M, [1-Cu] = ~1 x 10^{-5} M.
**Figure S6.** Packing diagram of Bu₄N⁺(1-Pt⁵).
Figure S7. Calculated charge density for a) 1-Pt, b) 1-Pt\(^{-}\), and c) their difference.

(a) 1-Pt

(b) 1-Pt\(^{-}\)

(c) \([1\text{-Pt}^{-}] - [1\text{-Pt}]\)