Supplementary Information

Robust porphyrin catalysts immobilized on biogenous iron oxide for the repetitive conversions of epoxides and ${\rm CO_2}$ into cyclic carbonates

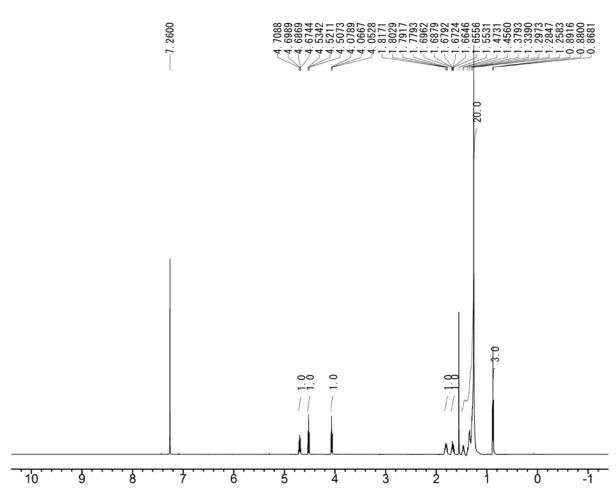
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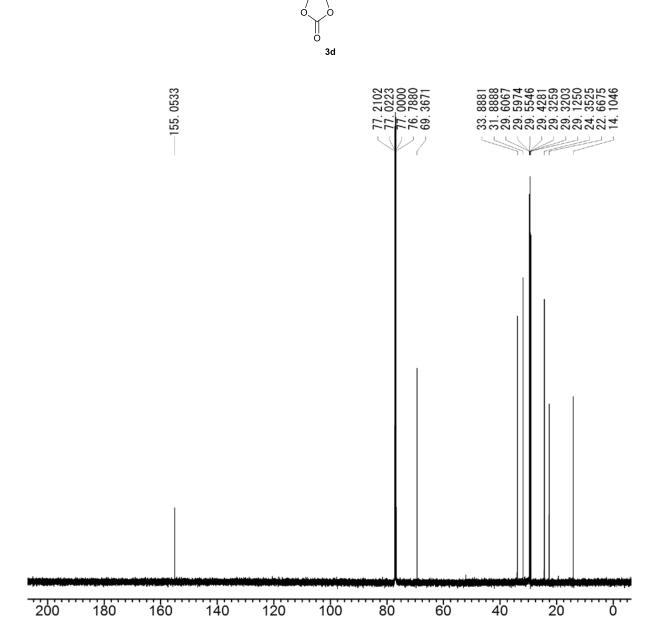
[1] ¹H and ¹³C NMR Spectra-----S2

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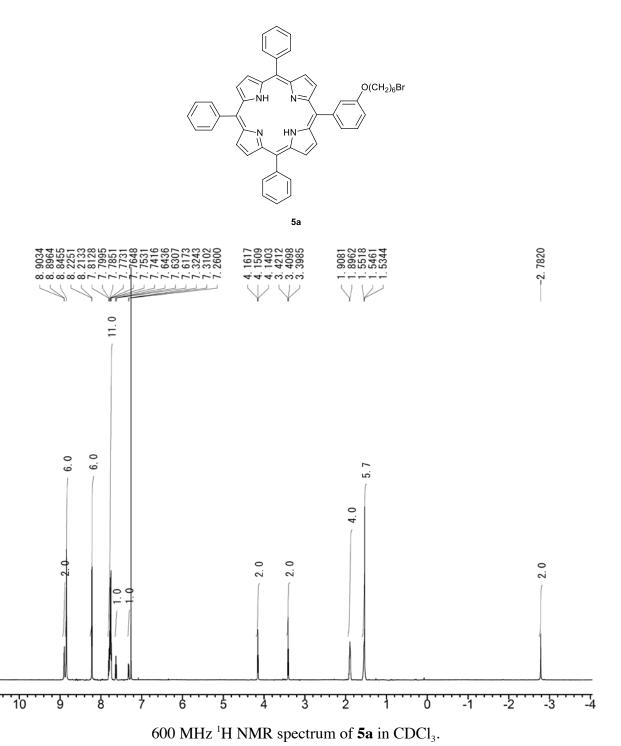


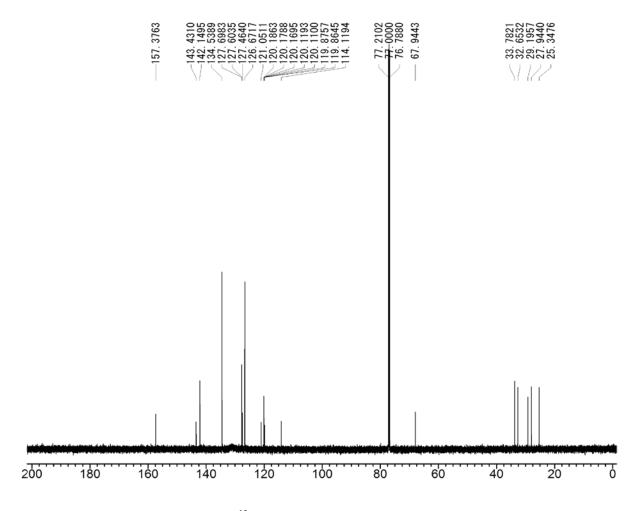


600 MHz ¹H NMR spectrum of **3d** in CDCl₃.

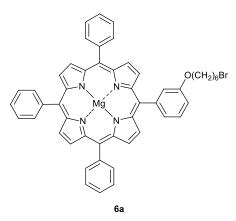


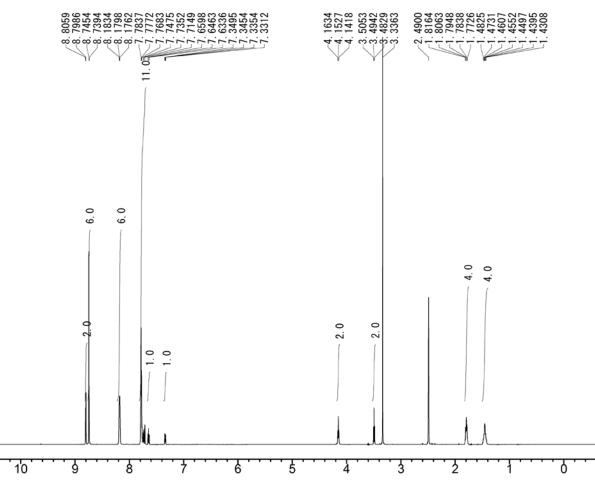
150 MHz ¹³C NMR spectrum of **3d** in CDCl₃.



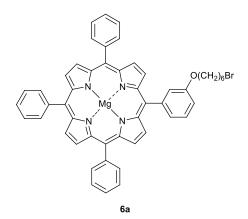


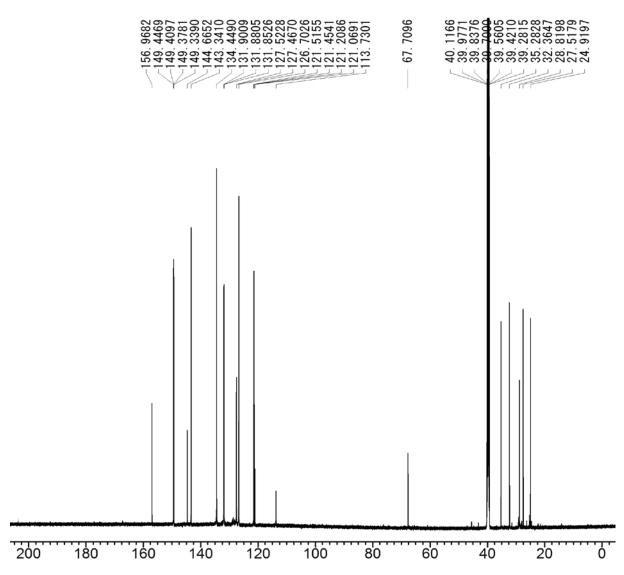
150 MHz 13 C NMR spectrum of **5a** in CDCl₃.



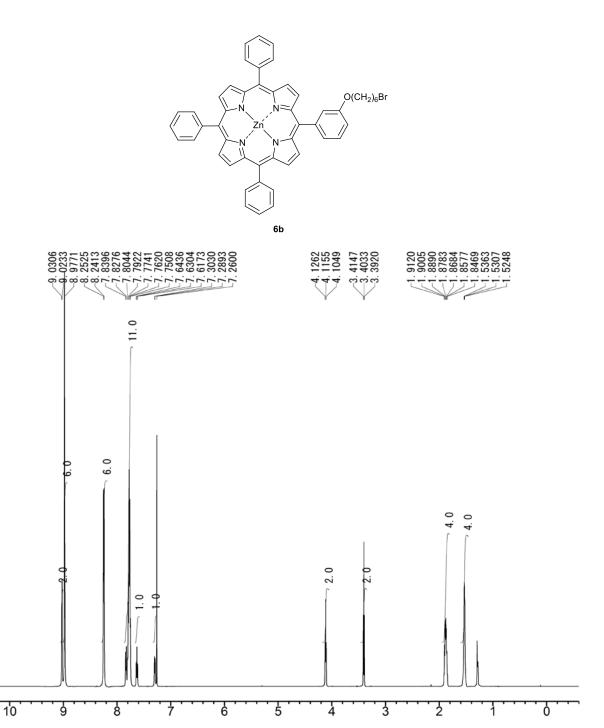


600 MHz 1 H NMR spectrum of **6a** in d_{6} -DMSO.





150 MHz 13 C NMR spectrum of **6a** in d_6 -DMSO.



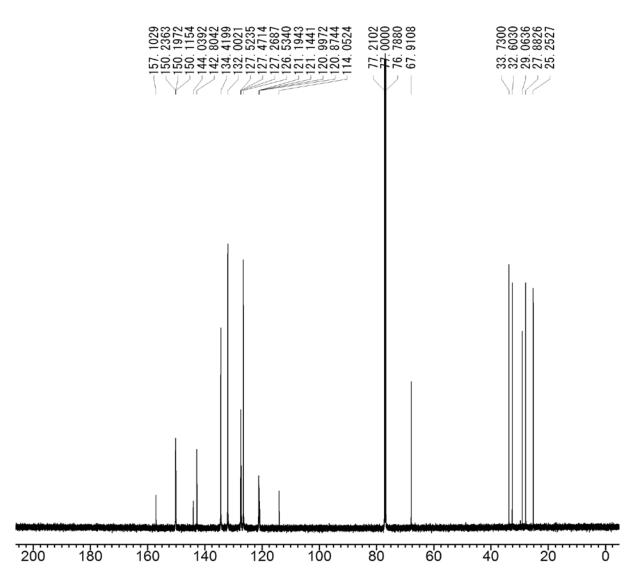
$$O(CH_2)_6Br$$

$$Zh$$

$$N$$

$$N$$

$$O(CH_2)_6$$



150 MHz ¹³C NMR spectrum of **6b** in CDCl₃.