

Supporting Information

Fluorescence recognition of Zn²⁺ ion by 1,1'-binaphthyl based on polyamine macrocycle

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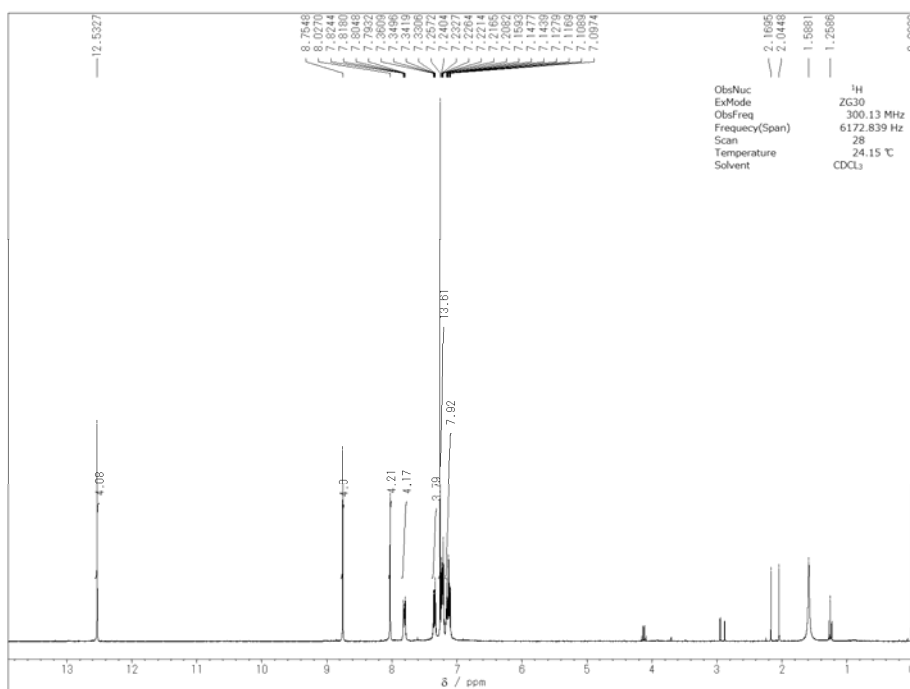


Figure 1S. ¹H-NMR (300 MHz, CDCl₃, TMS) spectrum of (*R,R*)-1.

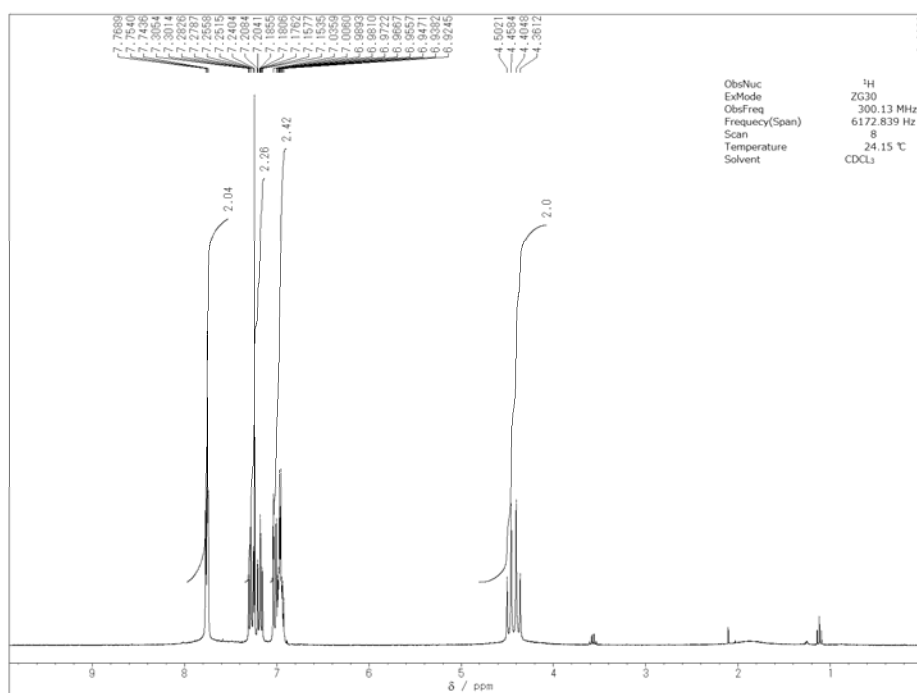


Figure 2S. ¹H-NMR (300 MHz, CDCl₃, TMS) spectrum of (*R,R*)-1H.

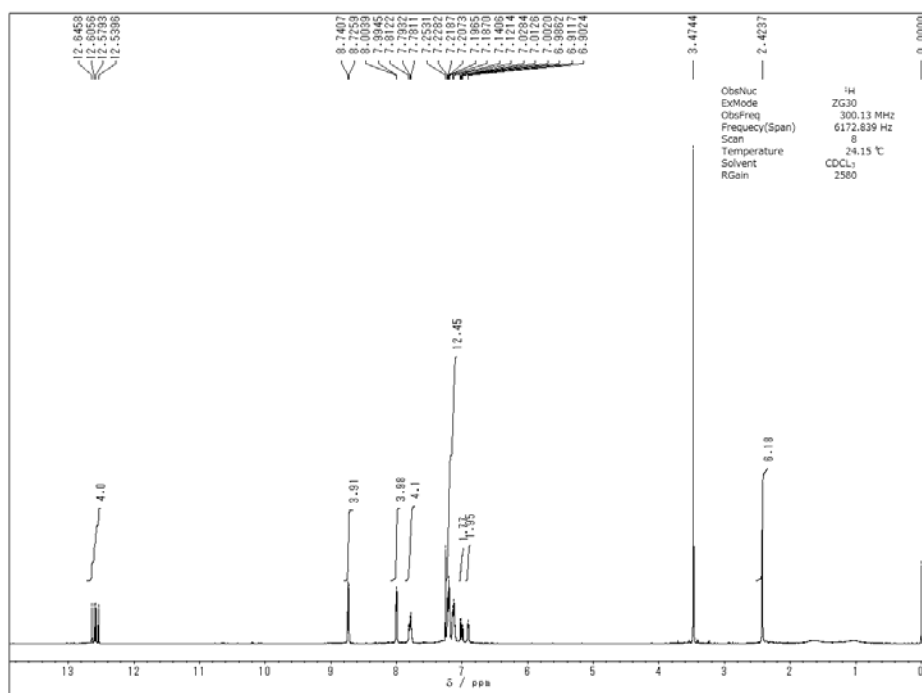


Figure 3S. $^1\text{H-NMR}$ (300 MHz, CDCl_3 , TMS) spectrum of (R,R) -2.

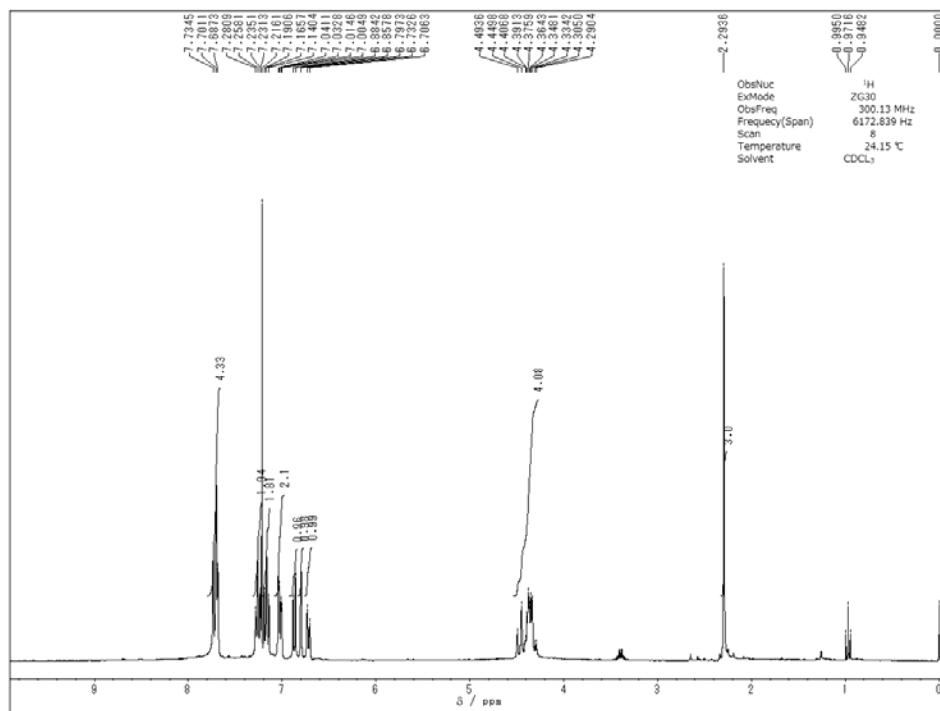


Figure 4S. $^1\text{H-NMR}$ (300 MHz, CDCl_3 , TMS) spectrum of (R,R) -2H.

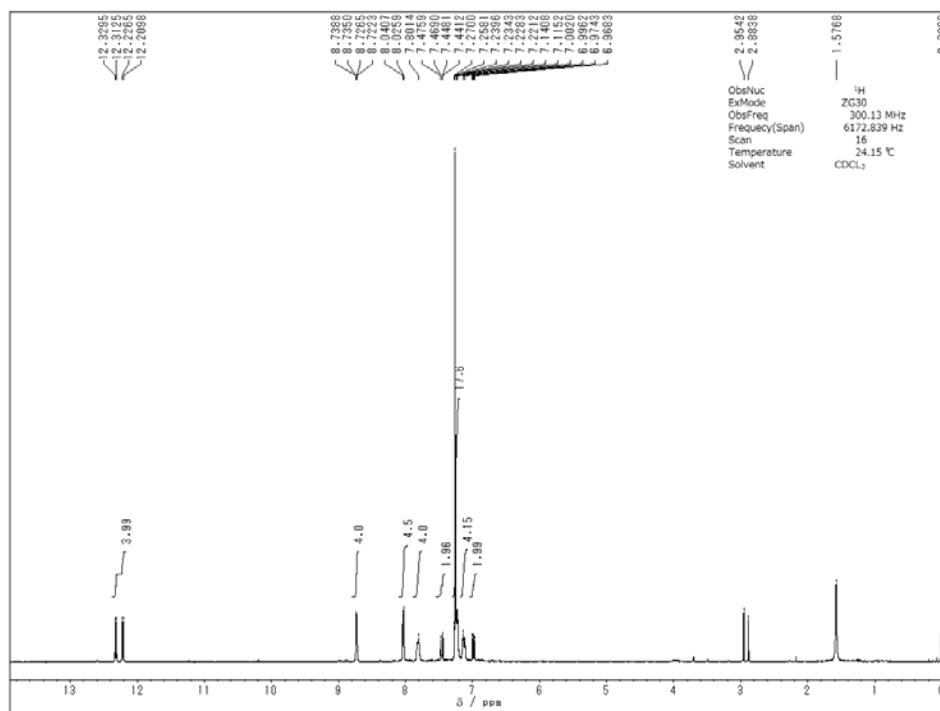


Figure 5S. $^1\text{H-NMR}$ (300 MHz, CDCl_3 , TMS) spectrum of (*R,R*)-**3**.

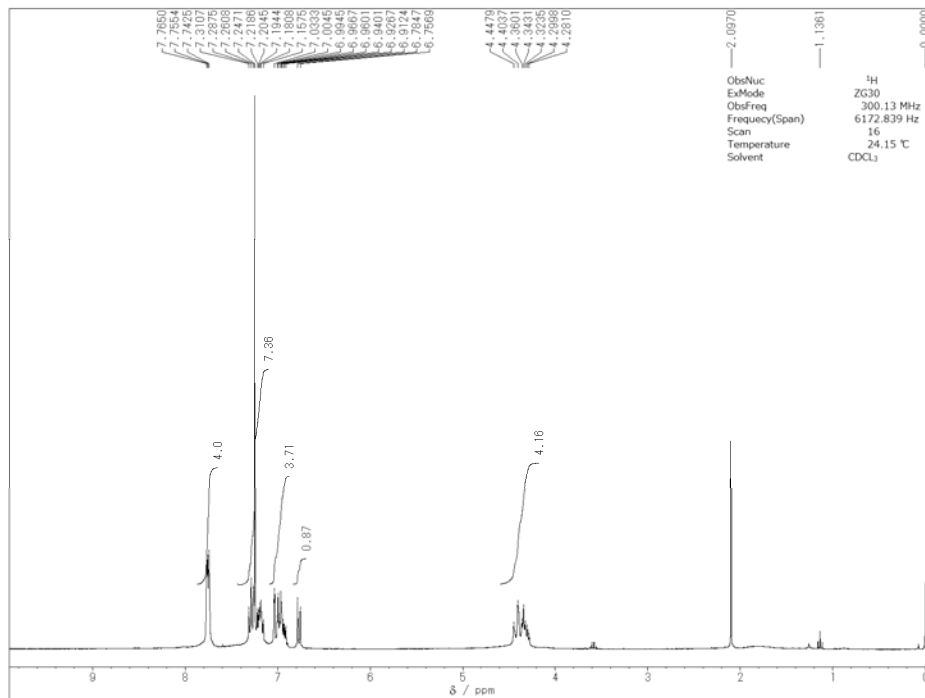


Figure 6S. $^1\text{H-NMR}$ (300 MHz, CDCl_3 , TMS) spectrum of (*R,R*)-**3H**.

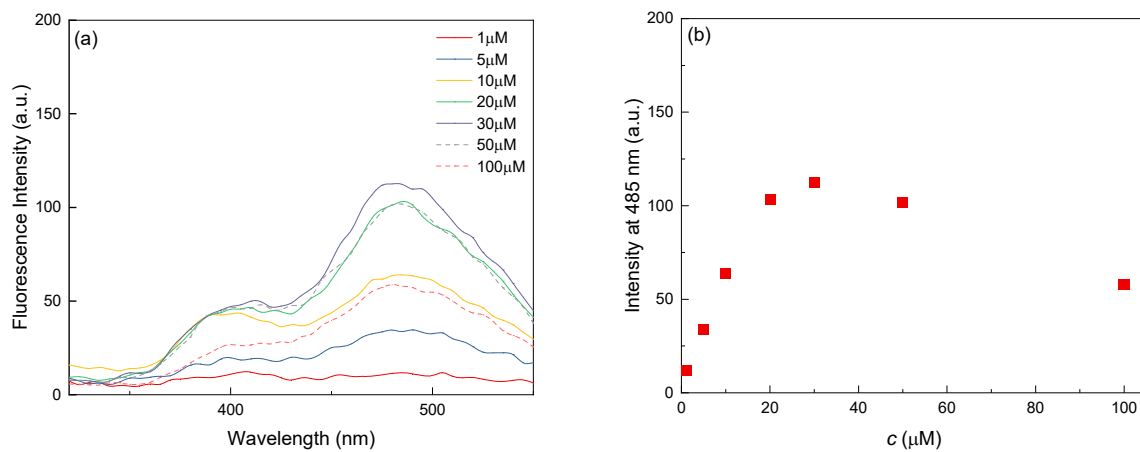


Figure 7S. (a) Fluorescence spectra of (*R,R*)-**2H** at various concentrations in ethanol solution. (b) The relationship between concentration ($[C]$) of macrocycle and fluorescence intensity at 485 nm.