Supporting information for

Enantioselective Fluorescent Recognition of Mandelic Acid by Unsymmetrical Salalen and Salen Sensors

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Electronic Supplementary Material (ESI) for Organic and Biomolecular Chemistry

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Fig. S1 Concentration effect on the UV-Vis spectra of 1b in toluene

Fig. S2 Concentration effect on the fluorescence spectra of 1a in toluene ($\lambda_{ex}=331$ nm)

Fig. S3 Concentration effect on the UV-Vis spectra of 2b in toluene
**Fig. S4** Concentration effect on the fluorescence spectra of 2b in toluene ($\lambda_{ex}=331$ nm)

![Fluorescence spectra of 2b in toluene](image)

**Fig. S5** Concentration effect on the UV-Vis spectra of 2a in toluene

![UV-Vis spectra of 2a in toluene](image)

**Fig. S6** Concentration effect on the fluorescence spectra of 2a in toluene ($\lambda_{ex}=331$ nm)

![Fluorescence spectra of 2a in toluene](image)
**Fig. S9** (a) Fluorescence spectra of 2a (1×10^{-6} mol/L in toluene with 2% (V/V) methanol, λ_{ex}= 331 nm) with (S)-MA or (R)-MA (2×10^{-4} mol/L) and (b) the plots of (I/I_0) vs the concentration of MA during the titration of 2a with (S)-MA or (R)-MA (λ_{ex}= 331 nm, λ_{em}= 364 nm)

![Fluorescence spectra](image)

**Fig. S10** (a) Fluorescence spectra of 2a (1×10^{-6} mol/L in chloroform with 1% (V/V) methanol, λ_{ex}= 331 nm) with (S)-MA or (R)-MA (1.4×10^{-4} mol/L) and (b) the plots of (I/I_0) vs the concentration of MA during the titration of 2a with (S)-MA or (R)-MA (λ_{ex}= 331 nm, λ_{em}= 364 nm)

![Fluorescence spectra](image)
**Fig. S11** Fluorescence spectra of (a) 2a and 2c (1×10^{-6} mol/L in chloroform with 1% (V/V) methanol, λ_{ex} = 331 nm) with (S)-7 or (R)-7 (1.0×10^{-4} mol/L)

**Fig. S12** Fluorescence spectra of (a) 2a and 2c (1×10^{-6} mol/L in chloroform with 1% (V/V) methanol, λ_{ex} = 331 nm) with (S)-8 or (R)-8 (1.0×10^{-4} mol/L)

**Fig. S13** Fluorescence spectra of (a) 2a and 2c (1×10^{-6} mol/L in chloroform with 1% (V/V) methanol, λ_{ex} = 331 nm) with (S)-9 or (R)-9 (1.0×10^{-4} mol/L)
Fig. S14 $^1$H NMR and $^{13}$C NMR spectra of 4a
**Fig. S15** $^1$H NMR and $^{13}$C NMR spectra of 4b
Fig. S16 $^1$H NMR and $^{13}$C NMR spectra of 1b
Fig. S17 $^1$H NMR and $^{13}$C NMR spectra of 1a
Fig. S18 $^1$H NMR and $^{13}$C NMR spectra of 2b
Fig. S19 $^1$H NMR and $^{13}$C NMR spectra of 2a
Fig. S20 $^1$H NMR and $^{13}$C NMR spectra of 2c