Supporting Information

Heterocyclic Thiosemicarbazones as Fluorescent Sensor for the Selective Recognition of Cations in Aqueous Phase

Sivalingam Suganya, Duraisamy Udhayakumari, Sivan Velmathi*

Received (in XXX, XXX) Xth XXXXXXXXXXX 20XX, Accepted Xth XXXXXXXXXXX 20XX

DOI: 10.1039/b000000x.
Fig. S1 UV-vis spectra of receptors (a) 1, (b) 2, (c) 3 (2.5 x10⁻⁵ M in DMSO) with the addition of 0-2 equiv. of Cu²⁺ ion (1.5x10⁻³ M in H₂O)
Fig. S2 UV-vis spectra of receptors (a) 1, (b) 2, (c) 3 (2.5 x 10^{-5} M in DMSO) with the addition of 2 equiv. of all cations (1.5 x 10^{-3} M in H_{2}O). (Changes observed in the intramolecular charge transfer band at 325nm).
Fig. S3 Emission spectra of receptors (a) 2, (b) 3 (2.5x10^{-5} M in DMSO) with the addition of 0-2 equiv. of Cu^{2+} ion (1.5x10^{-3} M in H_{2}O).
Fig. S4 Emission spectra of receptors (a) 1, (b) 2, (c) 3 (2.5 x10^{-5} M in DMSO) with the addition of 0-2 equiv. of Hg^{2+} ion (1.5x10^{-3} M in H_{2}O).
Fig. S5 (a) $^1$H and (b) $^{13}$C NMR for receptor 1 recorded on 300 MHz and 75 MHz spectrometer respectively using DMSO-d$_6$. 
Fig. S6 (a) $^1$H and (b) $^{13}$C NMR for receptor 2 recorded on 300 MHz and 75 MHz spectrometer respectively using DMSO-d$_6$. 

Fig. S7 (a) $^1$H and (b) $^{13}$C NMR for receptor 3 recorded on 300 MHz and 75 MHz spectrometer respectively using DMSO-d$_6$. 
Fig. S8 HRMS data for receptors (a) 1, (b) 2, (c) 3 recorded on Orbitrap Q exactive mass spectrometer.