

## Electronic Supplementary data

### Pyridoxal-thiosemicarbazide: its anion sensing ability and application in living cells imaging

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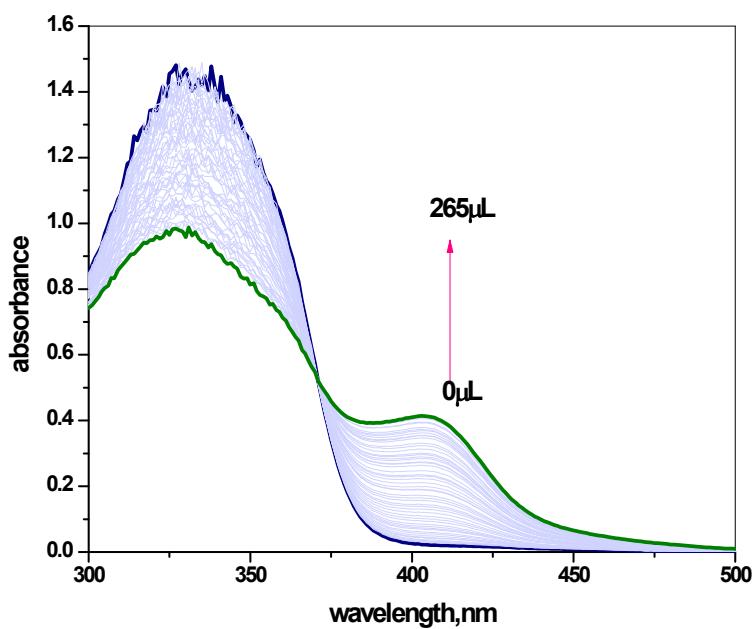
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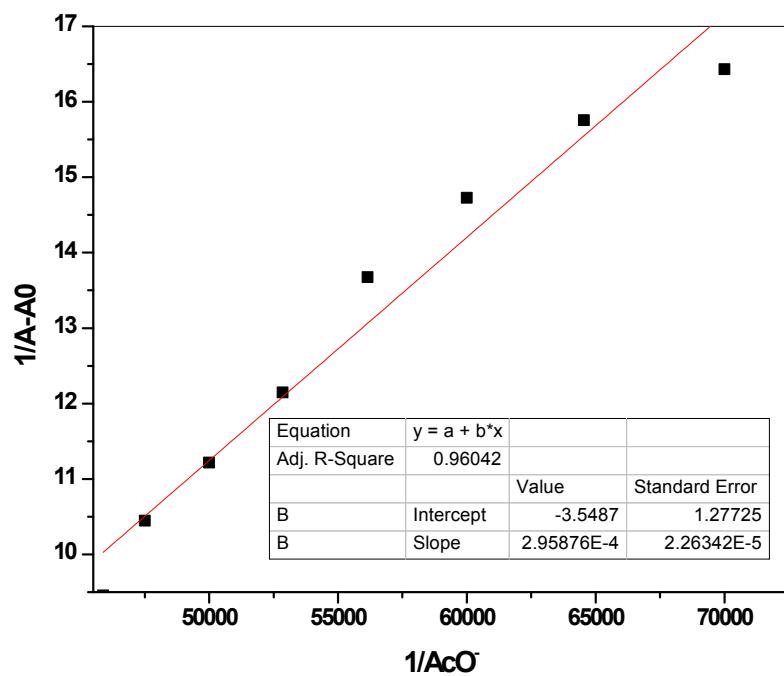
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Korea.

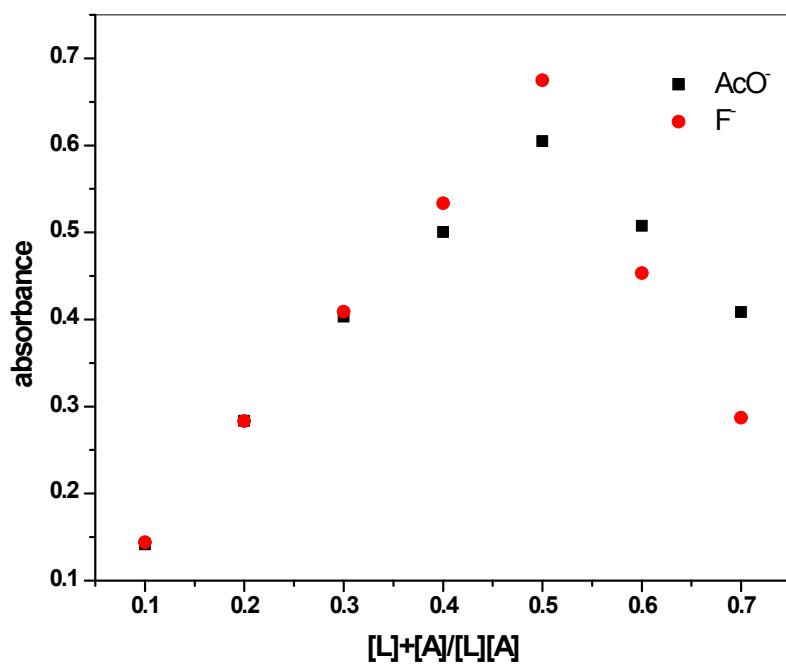
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261-2201855.



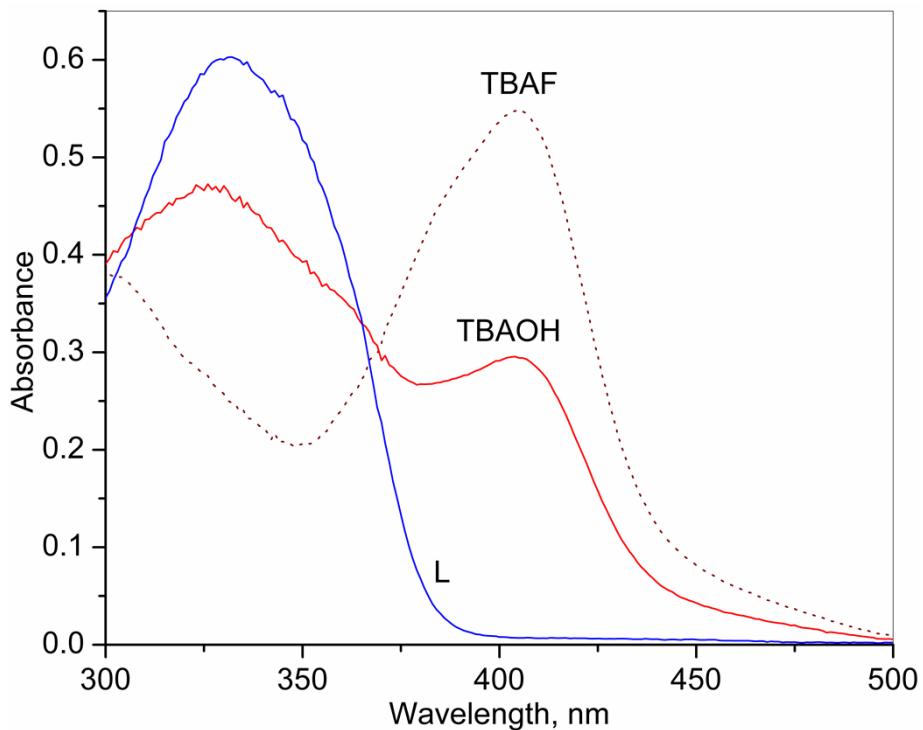
**Fig. S1.** Changes in the absorbance spectrum of L ( $5.0 \times 10^{-5}$  M) upon addition of incremental amounts of TBAAcO ( $1.0 \times 10^{-3}$  M) in DMSO.



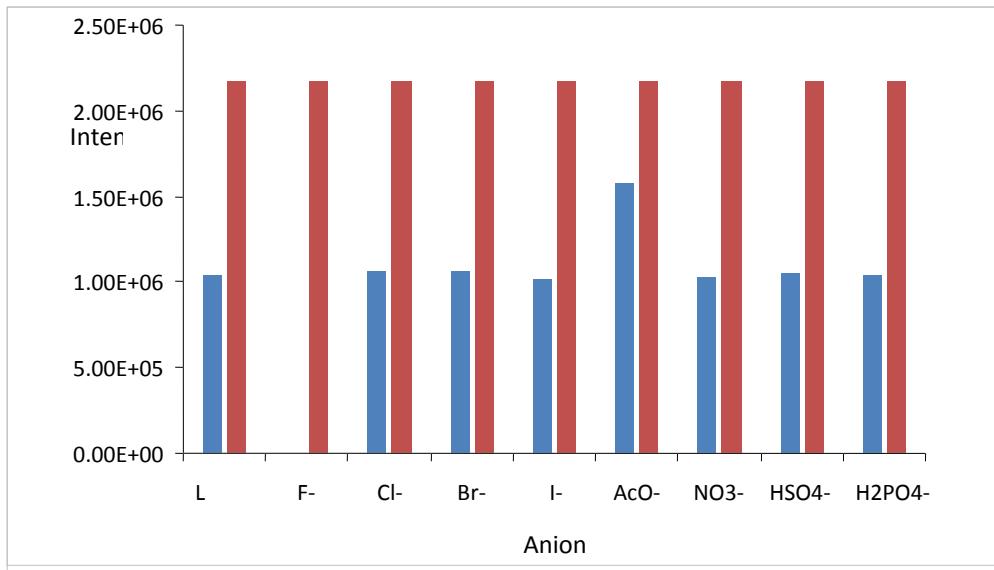
**Fig. S2.** B-H plot of AcO<sup>-</sup> with L.



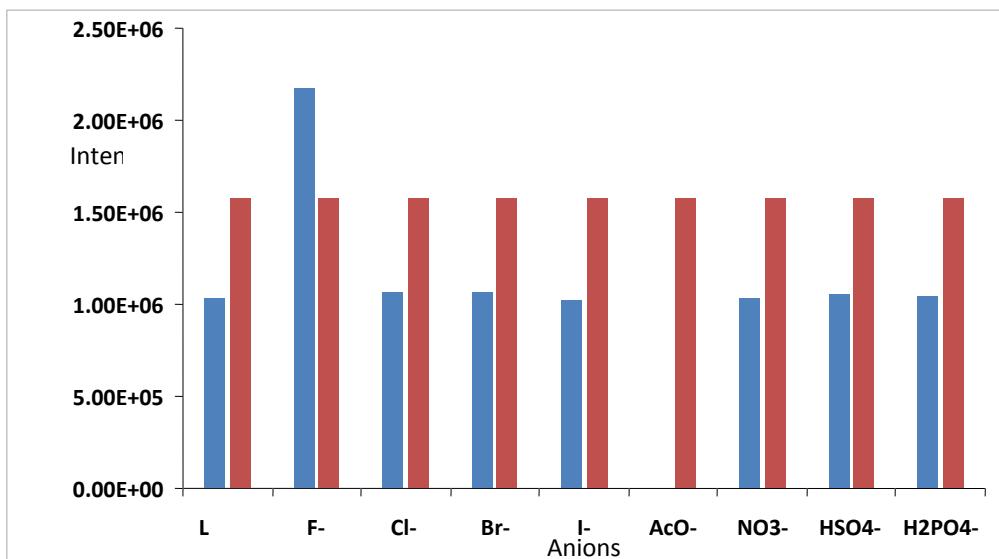
**Fig. S3.** Job's plot of L with fluoride and acetate.



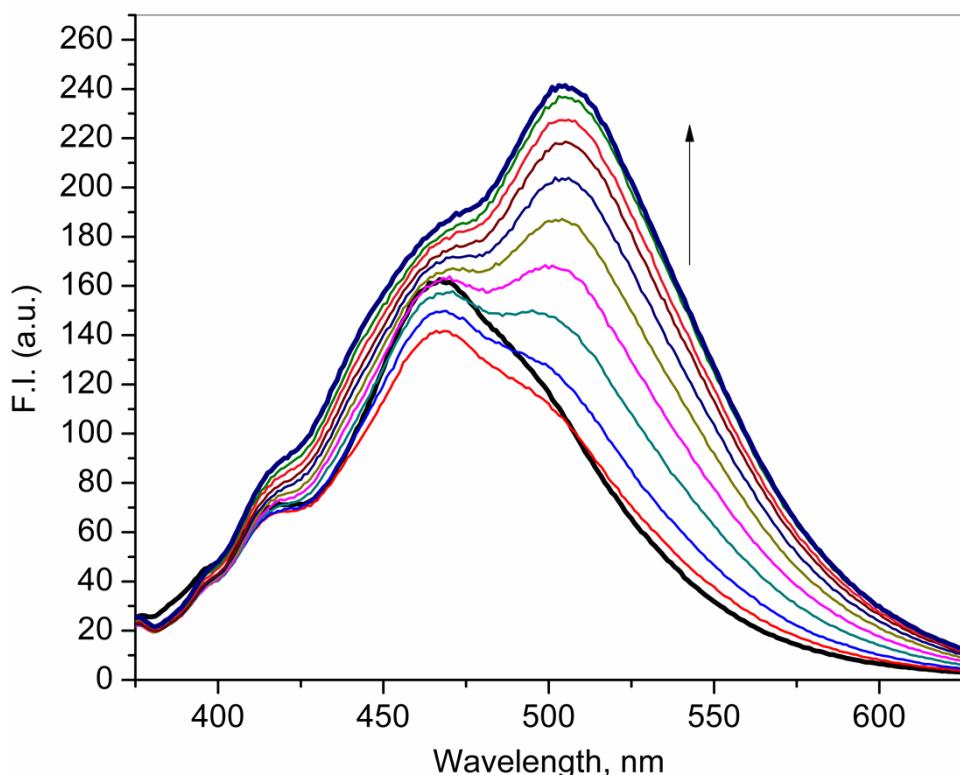
**Fig S4.** The absorption spectra of L with ten equivalents of TBAOH and TBAF in DMSO.



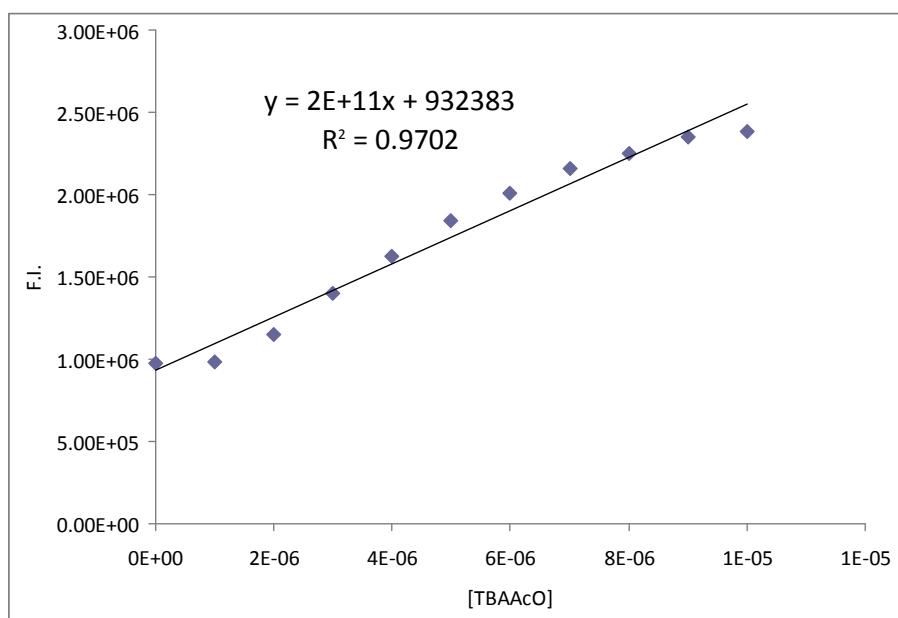
**Fig. S5.** Interference study of L with various anions (2 equiv.) in the presence of F<sup>-</sup> (1 equiv.).



**Fig. S6.** Interference study of L with various anions (2 equiv.) in the presence of AcO<sup>-</sup> (1 equiv.).



**Fig. S7.** Changes in the fluorescence spectra of L ( $1 \times 10^{-5}$  M) after the successive addition of AcO<sup>-</sup> (0-200  $\mu$ L,  $1 \times 10^{-4}$  M).



**Fig. S8.** The linear curve fitting of fluorescent intensity at 506 nm as a function of [AcO<sup>-</sup>].

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