Supporting Information

Azo based colorimetric probe for detection of cysteine and lysine amino acids and its real application in human blood plasma

Syed S. Razi, Rashid Ali, Priyanka Srivastava, Mohammad Shahid and Arvind Misra*
Department of Chemistry, Faculty of Science, Banaras Hindu University,
Varanasi – 221005. INDIA.
Corresponding author: e-mail: arvindmisra2003@yahoo.com; amisra@bhu.ac.in
Tel: +91-542-6702503; Fax: +91-0542-2368127, 2368175.
Figure S1: $^1$H NMR spectra of compound 3a in CDCl$_3$

Figure S2: $^1$H NMR spectra of compound 3b in CDCl$_3$

Figure S3: $^{13}$C spectra of compound 3a in CDCl$_3$

Figure S4: $^{13}$C spectra of compound 3b in CDCl$_3$

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Figure S6: ESI-MS Mass spectrum of 3b.

Figure S7: Cis-trans isomerism for receptors (a) 3a and (b) 3b in DMF.

Figure S8: Change in UV-Visible spectra and Bar diagram for 3a and 3b (10 µm) with different amino acids (50 equiv) in HEPES buffer (DMF/H$_2$O 9:1 v/v, pH 7.4).

Figure S9: Change in absorption spectra of 3a and 3b (10 µm) with thiol containing compound (Cys, GSH, Mercaptoethanol, 50 equiv) in HEPES buffer (DMF/H$_2$O 9:1 v/v, pH 7.4).

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Figure S21: ESI-MS Mass spectrum of 3a-Cys.

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Figure S22: ESI-MS Mass spectrum of 3a-Lys.

[3a + Lys + Na\(^+\) + H\(^+\)]

Figure S23: ESI-MS Mass spectrum of 3b-Cys.

[3b + Cys + H\(^+\)]
Figure S24: ESI-MS Mass spectrum of 3b-Lys.