## **Supplementary Information**

## Alanyl glycoconjugate: A selective receptor for free and protein-bound tryptophan

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**Figure S4:** ESI-MS of solution containing L-N2O2 and amino acids in 1:1 ratio, dissolved in mixed solvent ( $H_2O/MeOH$ ).

**Figure S5:** Fluorescence spectra of aqueous BSA (0.0625 mmol) titrated with methanolic solution of L-N2O2 varied in the range of 0 - 1.25 mmol, revealing the quenching of former's emission signal.

 Table S1: Effect of solvent methanol on emission intensity of aqueous solution of tryptophan.

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Table S1: Effect of solvent methanol on emission intensity of aqueous solution of

tryptophan.

	Intensity at 355 nm in
Analyte	arbitrary units
Trp(aq)*	1.33773 x 10 <sup>7</sup>
Trp(aq) + 10μL methanol	1.33493 x 10 <sup>7</sup>
Trp(aq) + 20μL methanol	1.34058 x 10 <sup>7</sup>
Trp(aq) + 30μL methanol	1.34711 x 10 <sup>7</sup>
Trp(aq) + 40μL methanol	1.34816 x 10 <sup>7</sup>
Trp(aq) + 50μL methanol	1.34746 x 10 <sup>7</sup>
Trp(aq) + 70μL methanol	1.35189 x 10 <sup>7</sup>
Trp(aq) +100μL methanol	1.34778 x 10 <sup>7</sup>

\* Trp(aq) : Aqueous solution of 0.5 mmol Tryptophan