**Design of a novel Schiff-base fluorescent sensor for Al^{3+}: experimental and computational studies**

Jing-Can Qin\(^1\), Xiao-ying Cheng\(^1\), Kai-chao Yu\(^2\), Ran Fang\(^1\), Ming-fang Wang\(^1\), Zheng-yin Yang*\(^1\)

\(^1\)State Key Laboratory of Applied Organic Chemistry, College of Chemistry and Chemical Engineering, Lanzhou University, Lanzhou 730000, PR China

\(^2\)Hubei Key Laboratory of Bioinorganic Chemistry & Materia Medica, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, Wuhan 430074, PR China

** Corresponding author. Tel.: +86 931 8913515; Fax: +86 931 8912582; e-mail: yangzy@lzu.edu.cn (Z.Y. Yang)

Fig. S1 The \(^1\)H NMR of HL.

Fig. S2 The IR spectra of HL.

Fig. S3 the binding constant is based on the fluorescence titration data.

Fig. S4. The detection limit of HL.

Fig. S5. The ESI-MS spectra of L- Al.

Fig. S6. The IR spectra of L- Al.
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