

Supporting Information for

A New Class of Tetradentate β -Diketonate-Europium Complexes That Can Be Covalently Bound to Proteins for Time-Gated Fluorometric Application

Lin Zhang,[†] Yanjiao Wang,[†] Zhiqiang Ye,^{*,†} Dayong Jin,[‡] and Jingli Yuan^{*,†}

[†]State Key Laboratory of Fine Chemicals, School of Chemistry, Dalian University of Technology, Dalian 116024, P. R. China, and [‡]MQ Photonics Centre, Faculty of Science, Macquarie University, NSW 2109, Sydney, Australia.

Supplementary Figures

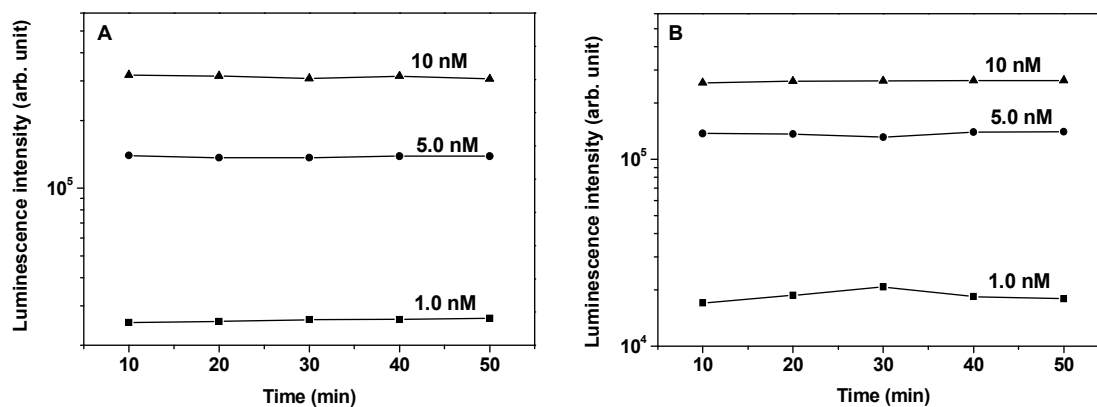


Figure S1. Time-dependent luminescence intensities of BHHBCB-Eu³⁺ (A) and BHHCT-Eu³⁺ (B) at lower concentrations (1.0, 5.0, 10 nM) in 0.05 M Tris-HCl buffer of pH 7.8. The water-soluble BSA conjugates of two Eu³⁺ complexes were used for measurements on the Perkin-Elmer Victor 1420 multilabel counter.

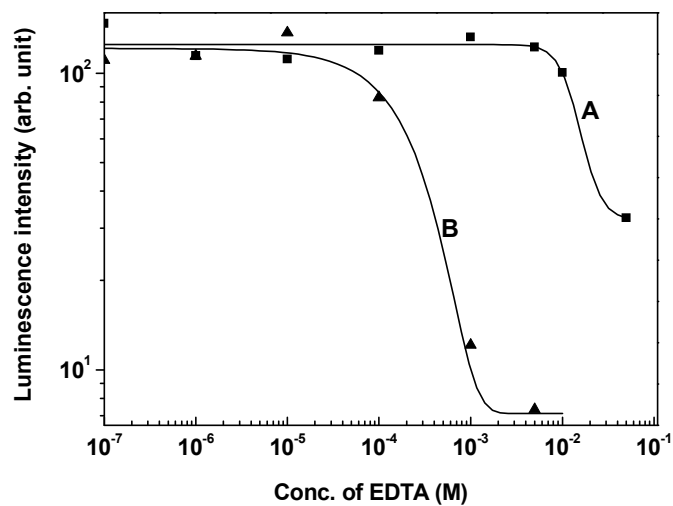


Figure S2. Luminescence intensities of BHHBCB-Eu³⁺ (A, 1.0×10^{-6} M) and BHHCT-Eu³⁺ (B, 1.0×10^{-6} M) in the presence of different concentrations of EDTA in 0.05 M Tris-HCl buffer of pH 7.8. The water-soluble BSA conjugates of two Eu³⁺ complexes were used for the measurements on the Perkin Elmer LS 50B luminescence spectrometer with time-gated mode.