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Supporting Information

for

Investigation of a bimetallic terbium(III)/copper(II) chemosensor for the detection of aqueous hydrogen sulfide

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Copies of HRMS, ^{1}H NMR and fluorescence emission spectra

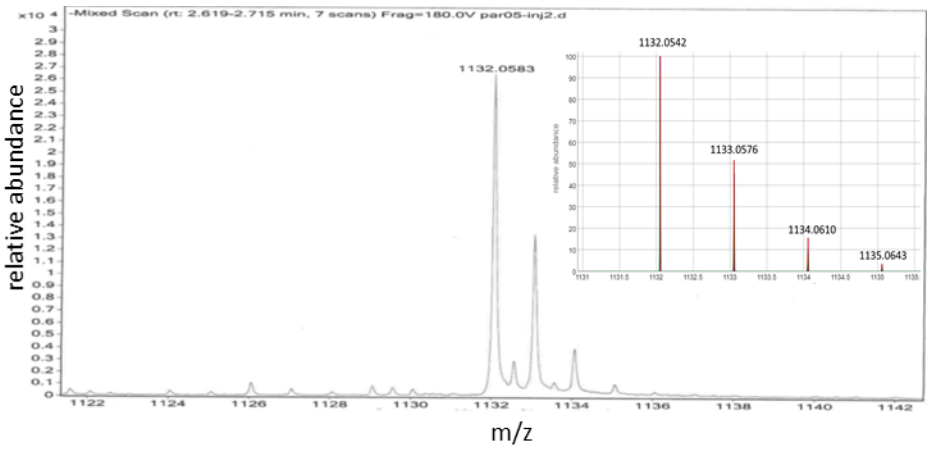

Figure S1: HRMS of [Tb.**1**·2Na^{+}]$^{-}$, insert: Simulated MS using EnviPat Web 2.4 software, available at https://www.envipat.eawag.ch/.

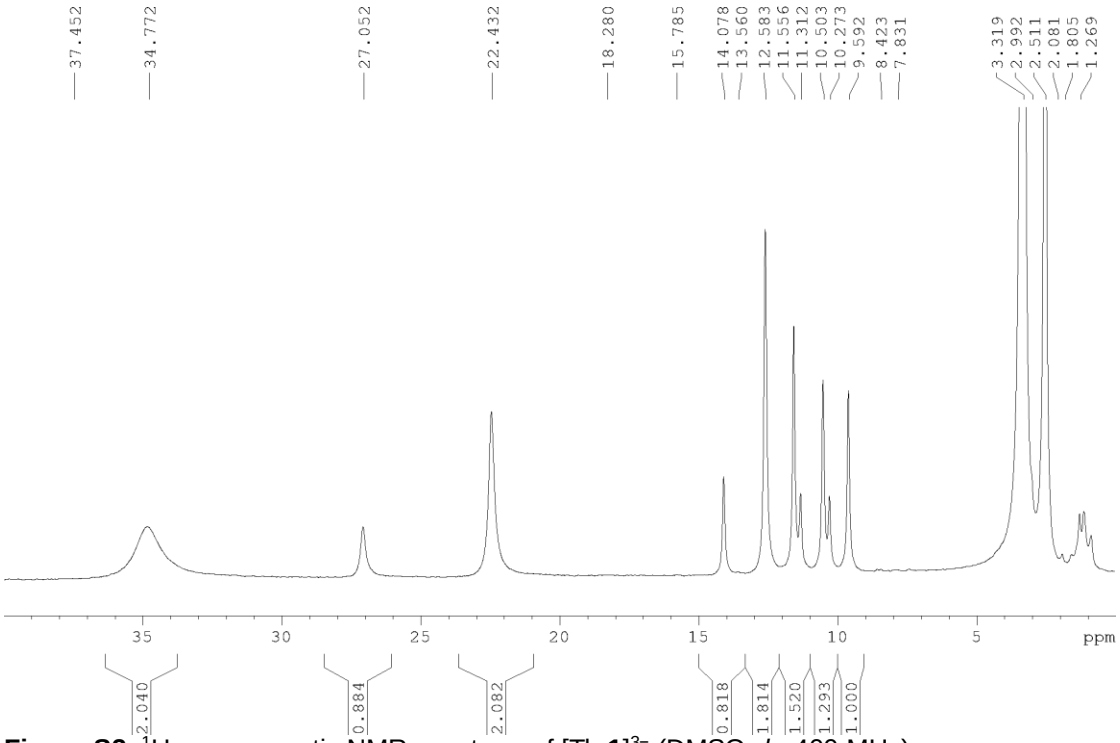

Figure S2. ^{1}H paramagnetic NMR spectrum of [Tb.**1**]$^{3-}$ (DMSO-d_6, 400 MHz).

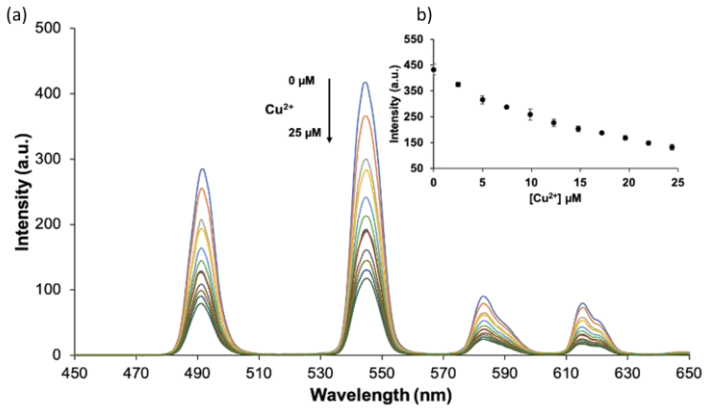

Figure S3: (a) Changes in the luminescence emission spectrum of [Tb.**1**]$^{3-}$ (5 μM) upon the addition of Cu^{2+} (0–25 μM); spectra measured in 10 mM Tris HCl buffer (pH 7.4) with λ_{ex} = 250 nm.

(b) Luminescence intensity detected at 545 nm upon the addition of Cu^{2+} (*n* = 3).

http://app.supramolecular.org/bindfit/view/d0e6f7ef-6faf-450b-b842-d8ae13300612

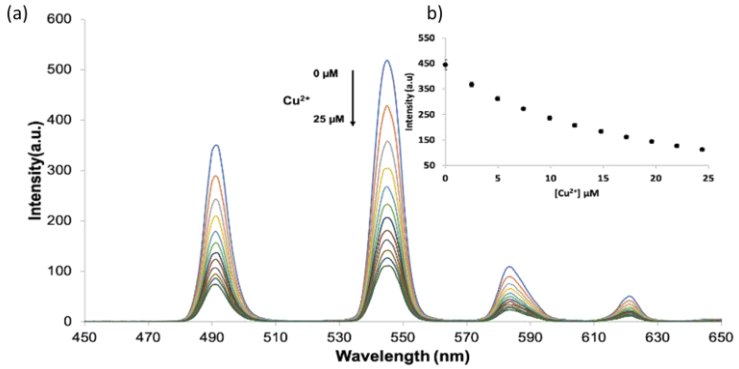

Figure S4: (a) Changes in the luminescence emission spectrum of [Tb.**1**]$^{3-}$ (5 μM) upon the addition of Cu^{2+} (0–25 μM); spectra measured in 10 mM HEPES buffer (pH 7.4) with λ_{ex} = 250 nm.

(b) Luminescence intensity detected at 545 nm upon the addition of Cu^{2+} (*n* = 3).

http://app.supramolecular.org/bindfit/view/9e883727-6b75-4a9f-835b-13a80df0e89d