

Supporting Information

for

**pH- and competitor-driven nanovalves of cucurbit[7]uril
pseudorotaxanes based on mesoporous silica supports for controlled
release†**

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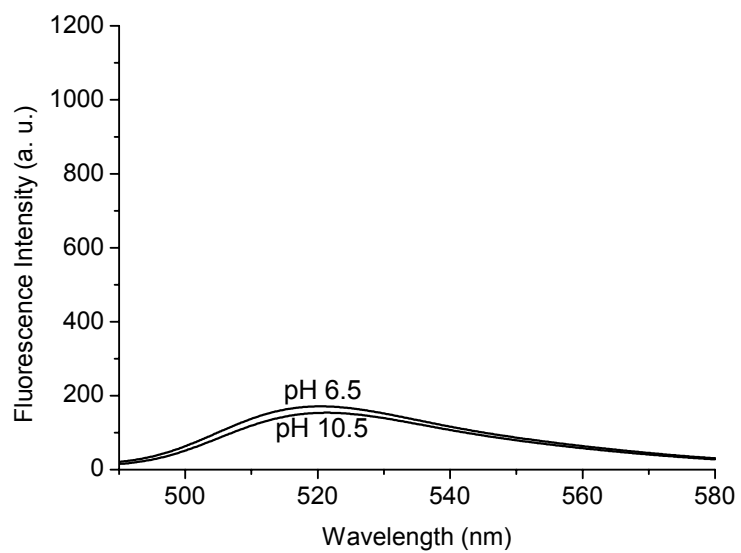


Fig. S1 Fluorescence spectra of aqueous calcein solutions at different pH.

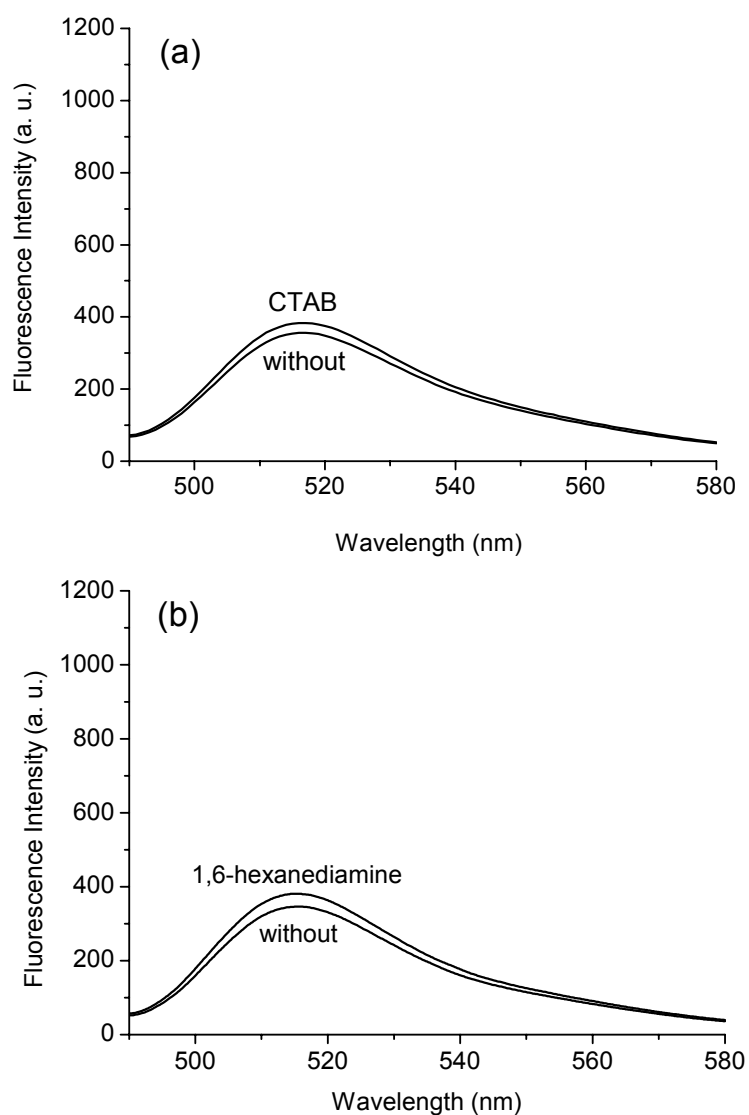


Fig. S2 Fluorescence spectra of aqueous calcein solutions in the absence and presence of competitors (1.0×10^{-4} mol L⁻¹) at pH 6.5: (a) CTAB; (b) 1,6-hexanediamine.

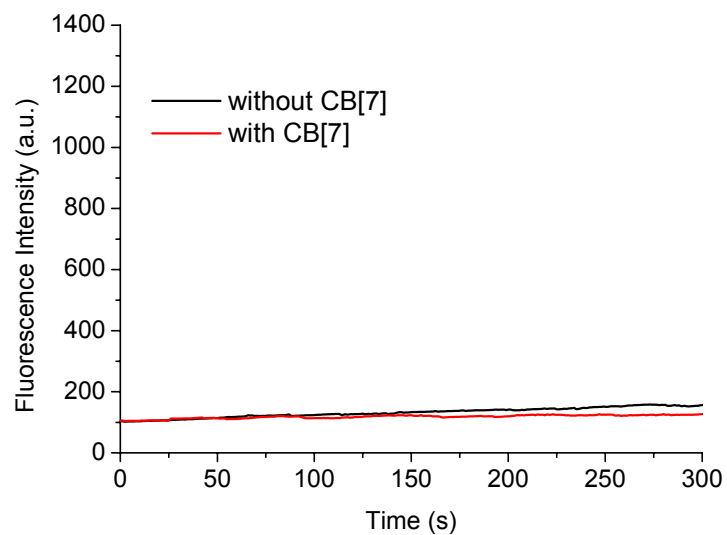


Fig. S3 Comparison of calcein leakages from the MCM-41 systems before triggered activation in aqueous solutions without and with CB[7] ($1.0 \times 10^{-9} \text{ mol L}^{-1}$) at pH 6.5.