**Supplementary material**



**Figure S1.** (a) 1H and (b) 13C NMR spectra of Ce6 in DMSO-d6.



**Figure S2.** (a) 1H and (b) 13C NMR spectra of bCDsu in D2O,.

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**Figure S3.** Mass spectra (MS) of (a) bCDsu (DS of succinyl group = 6), (b) bCDsu (DS of succinyl group = 7) and (c) bCDsu-ss.



**Figure S4.** (a) 1H and (b) 13C NMR spectra of bCDsu-ss in DMSO-d6.



**Figure S5.** (a) HSQC and (b) HMBC of bCDsu-ss in DMSO-d6.



**Figure S6.** 13C NMR spectra of bCDsu-ss-Ce6 conjugates

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**Figure S7.** HSQC and HMBC of Ce6 and bCDsu-ss-Ce6 conjugates. HSQC (a) and HMBC (b) of Ce6; HSQC (c) and HMBC (d) of bCDsu-ss-Ce6 conjugates.



**Figure S8.** FT-IR spectra of bCD, bCDsu, bCDsu-ss, Ce6 and bCDsu-ss-Ce6 conjugates**.**