ESI for

Sugar-bearing Tetraphenylethylene: Novel Fluorescent Probe for Studies of Carbohydrate–Protein Interaction Based on Aggregation-induced Emission

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**Figure S1.** Fluorescence spectra of **CTPE-1** (12.5 μM) in the presence of different proteins [Con A (20 μM), BSA (20 μM)].

**Figure S2.** The photos of the corresponding buffer solutions of CTPE-3 (20 μM) (left), CTPE-3 (20 μM) digested by β-glucosidase (1.5 U) (middle), and β-glucosidase (1.5 U) (right).
**Figure S3.** Fluorescence spectra of CTPE-4 (20 μM) in the absence (A) and presence (B) of β-glucosidase (1.5 U)

$^1$H NMR spectrum of 2
$^{13}$C NMR spectrum of 2

$^1$H NMR spectrum of 4
$^{13}$C NMR spectrum of 4

$^1$H NMR spectrum of 6
$^{13}$C NMR spectrum of 6

$^1$H NMR spectrum of 7
$^{13}$C NMR spectrum of 7

$^1$H NMR spectrum of CTPE-1
$^{13}$C NMR spectrum of CTPE-1

MS spectrum of CTPE-1
\[ ^{1}H \text{ NMR spectrum of 9} \]

\[ ^{13}C \text{ NMR spectrum of 9} \]
$^1$H NMR spectrum of CTPE-2

$^{13}$C NMR spectrum of CTPE-2
MS spectrum of CTPE-2

$^1$H NMR spectrum of 12
$^{13}$C NMR spectrum of 12
$^1$H NMR spectrum of 13

$^{13}$C NMR spectrum of 13
$^1$H NMR spectrum of CTPE-3

$^{13}$C NMR spectrum of CTPE-3
MS spectrum of CTPE-3

1H NMR spectrum of CTPE-4
$^{13}$C NMR spectrum of CTPE-4

MS spectrum of CTPE-4