Figure S2. NMR spectra of Sop₄.
(A) ¹H-NMR, (B) ¹³C-NMR, (C) DQF-COSY, (D) TOCSY, (E) HSQC and (E) HMBC. I, II, III, and IV denote first, second, and third glucose residues from reducing end, respectively. Letters in parenthesis represent position of hydroxyl group on the anomeric carbon. Arabic numbers shown with roman numbers represent positions of carbons and protons in sugar rings.
(C) DQF-COSY

Glcβ1,2Glcβ1,2Glcβ1,2Glc

IV  III  II  I

ppm ([H])

5.5  5.42  4.85  4.75  4.7  4.6  4.5  4.4  4.3  4.2  4.1  4.0  3.9  3.8  3.7  3.6  3.5  3.4  3.3  3.2  3.1  3.0  2.9  2.8  2.7  2.6  2.5  2.4  2.3  2.2  2.1  2.0  1.9  1.8  1.7  1.6  1.5  1.4  1.3  1.2  1.1  1.0  0.9  0.8  0.7  0.6  0.5  0.4  0.3  0.2  0.1  0.0
(E) HSQC
(F) HMBC

Glcβ1,2Glcβ1,2Glcβ1,2Glc

IV  III  II  I

I(a) C2-II(a) H1
II C2-III H1
III C2-IV H1
I(β) C2-II(β) H1

III C1-II H2
II(α) C1-I(α) H2
I(β) C1-I(β) H2
IV C1-III H2