

Supplementary Data

Synthesis of a new glycoconjugate with di-*D*-psicose anhydride structure

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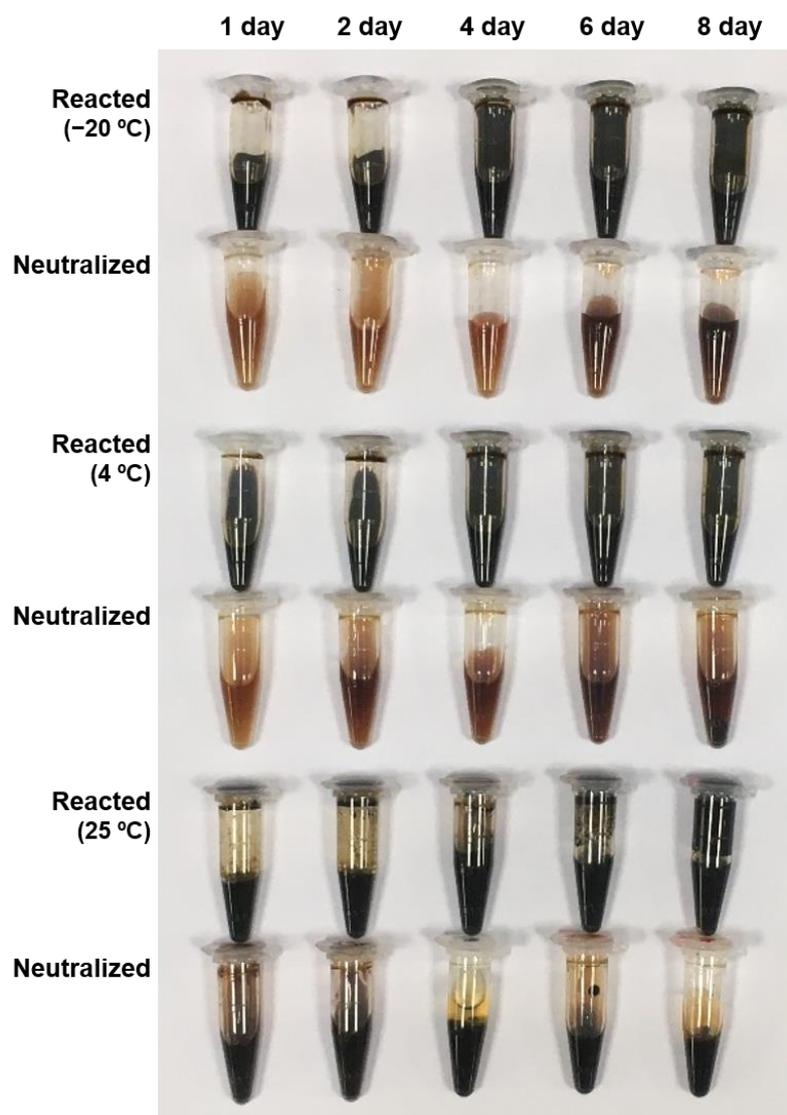


Figure S1. Caramelization of *D*-psicose with time and temperature.

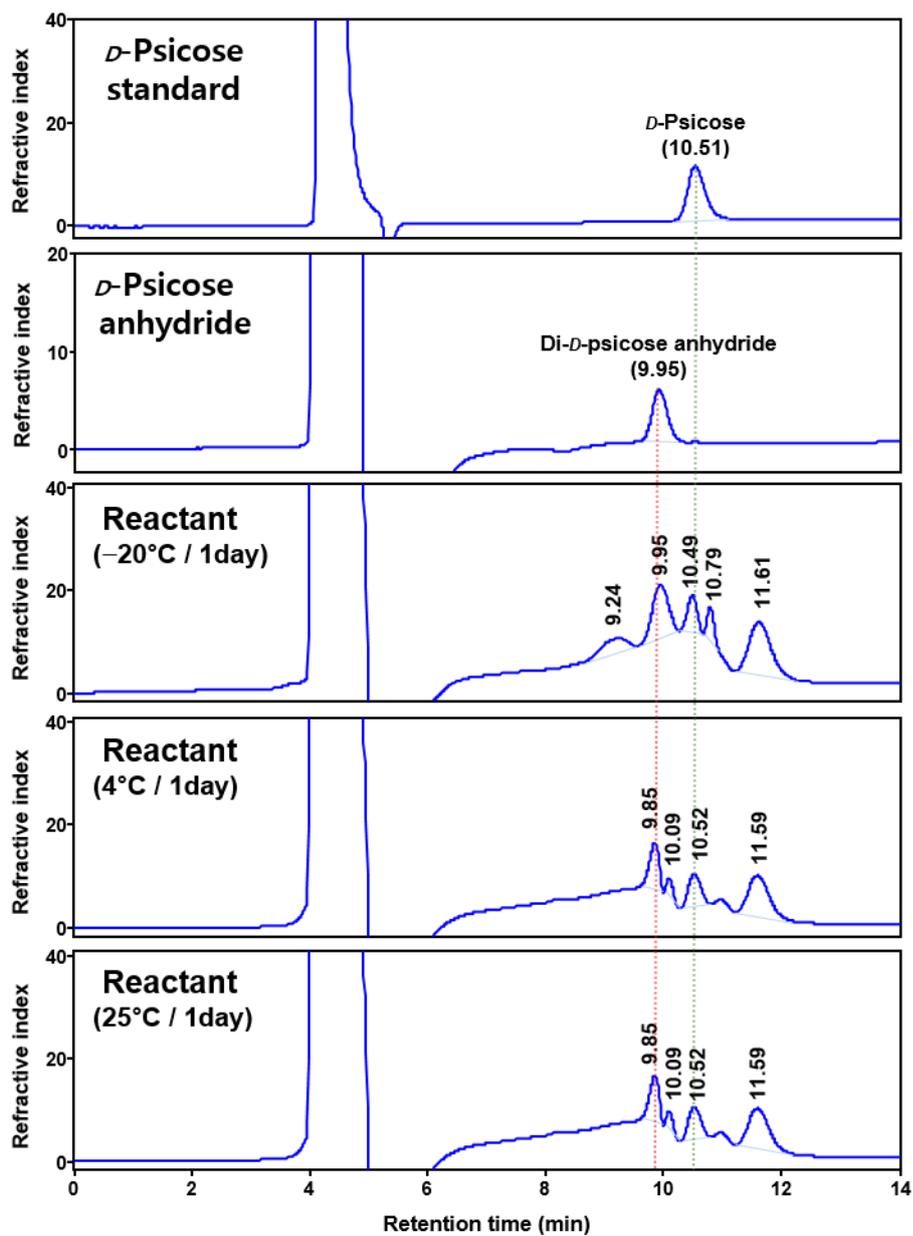


Figure S2. Composition of di-*D*-psicose anhydride (DPA), *D*-psicose, and other peaks with reaction temperature for one day under hydrochloric acid condition.

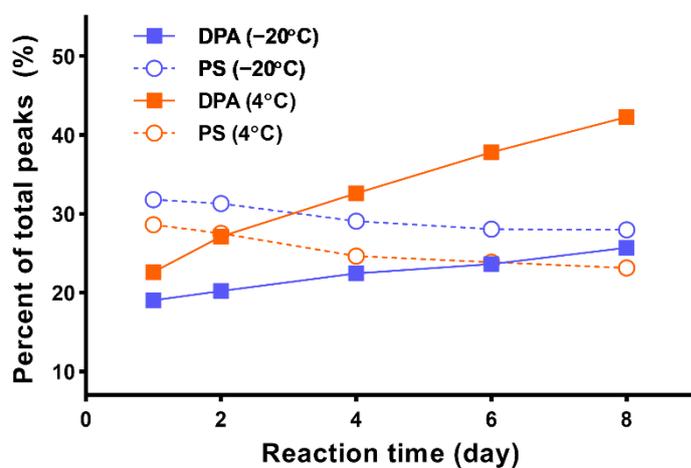


Figure S3. Ratio of di-*D*-psicose anhydride (DPA) production to *D*-psicose residual with reaction time and temperature under hydrochloric acid conditions.

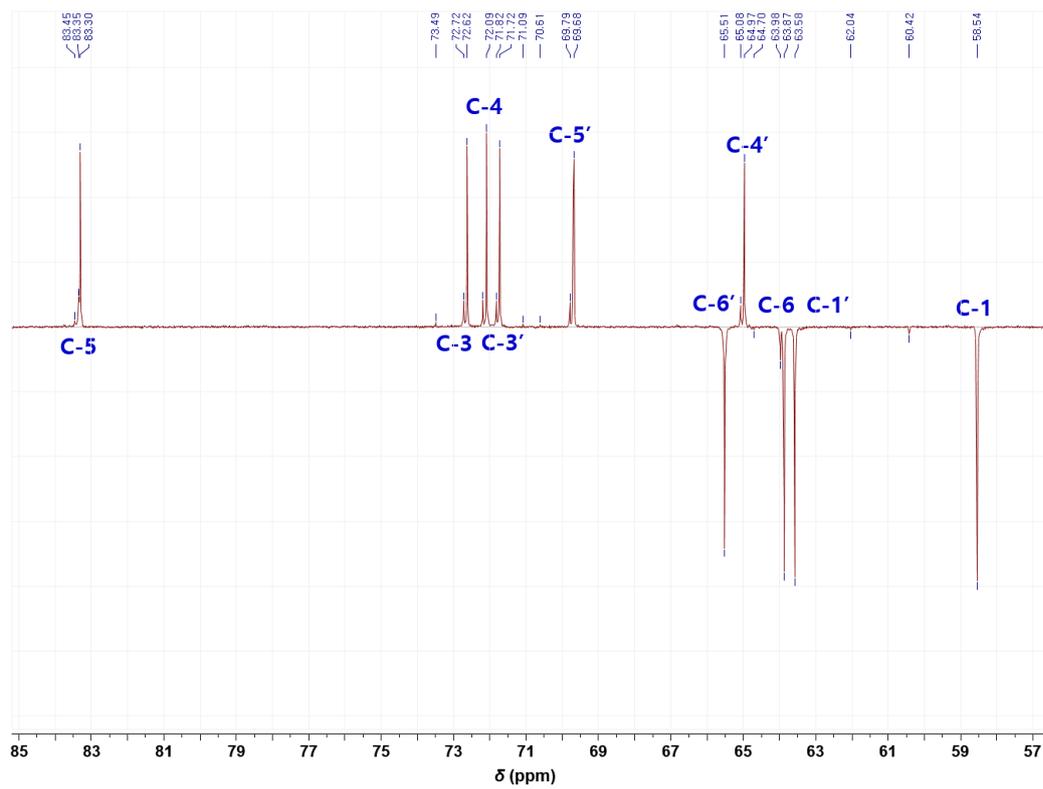
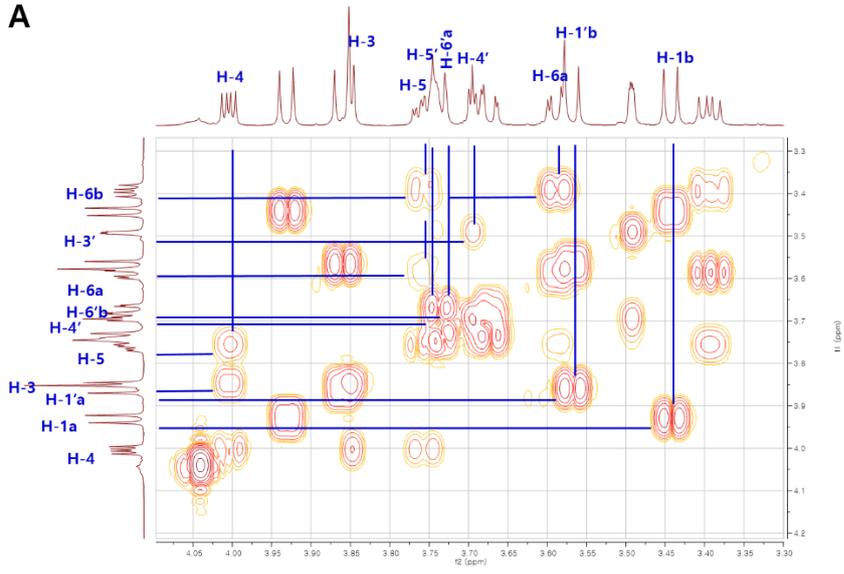
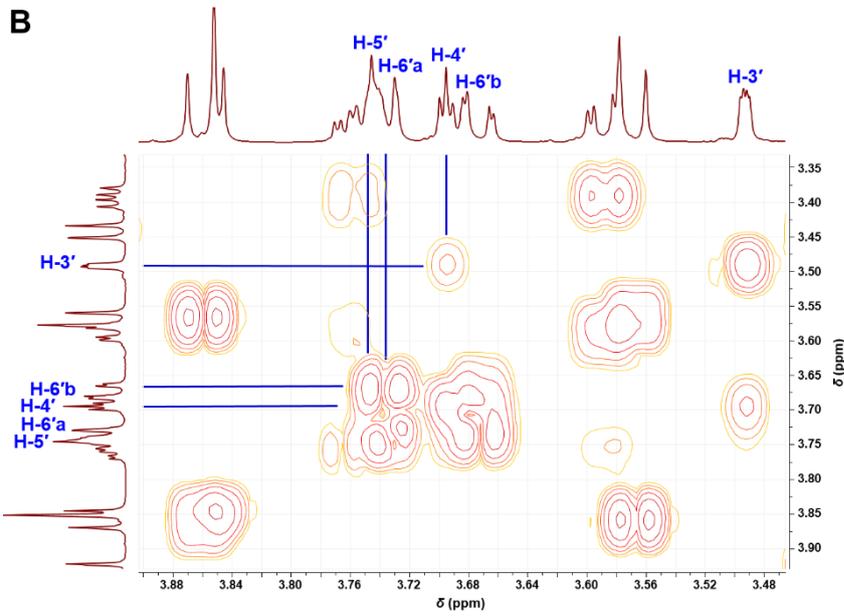


Figure S4. Distortionless enhancement by polarization transfer 135 NMR spectrum of di-*D*-psicose anhydride.

A**B**

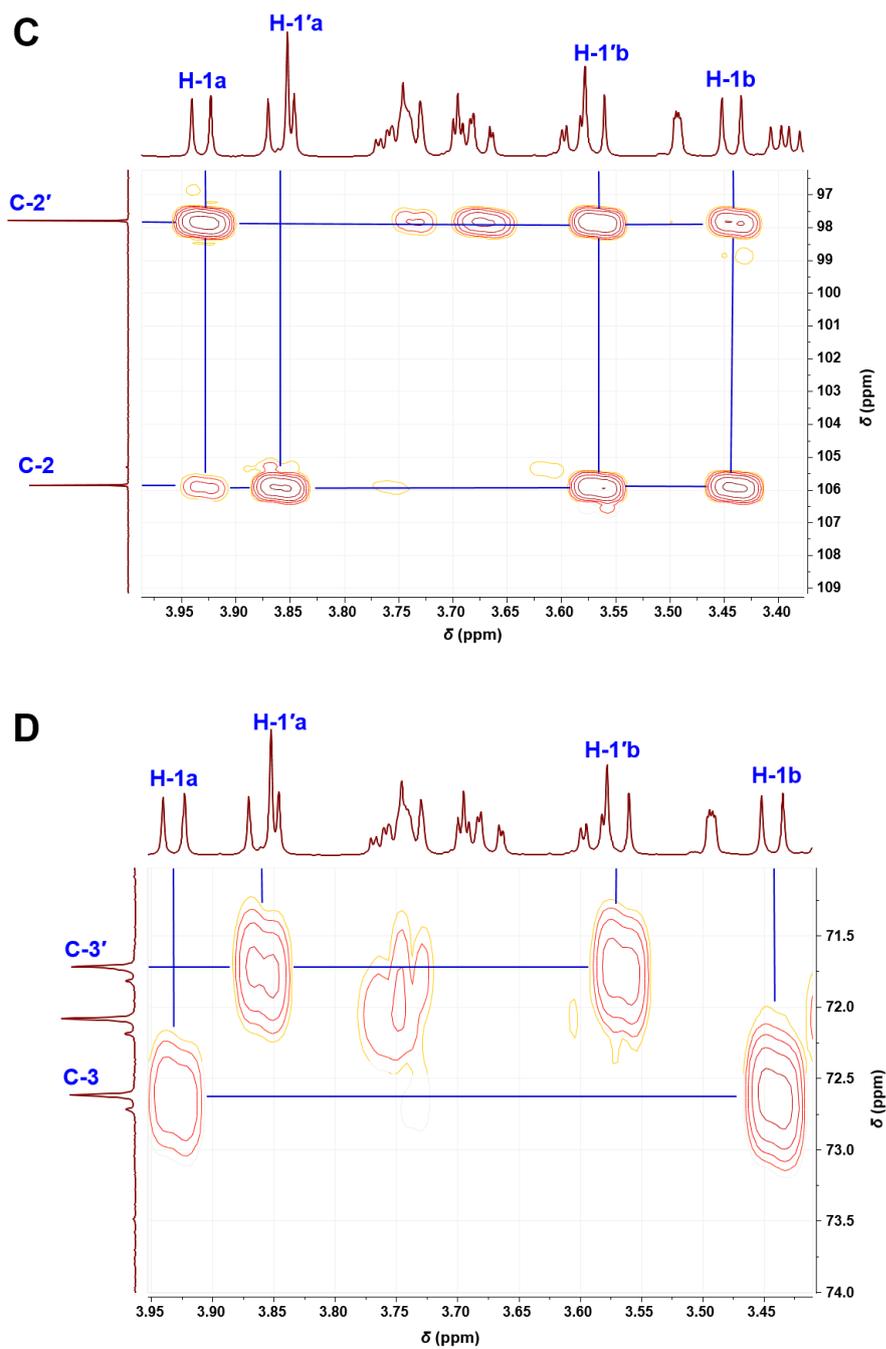


Figure S5. Correlated spectroscopy NMR spectra of di-*D*-psicose anhydride. Full scale (A) and enlarged scale (B). Correlation for C-2 and C-2' (C) and correlation for C-3 and C-3' (D).

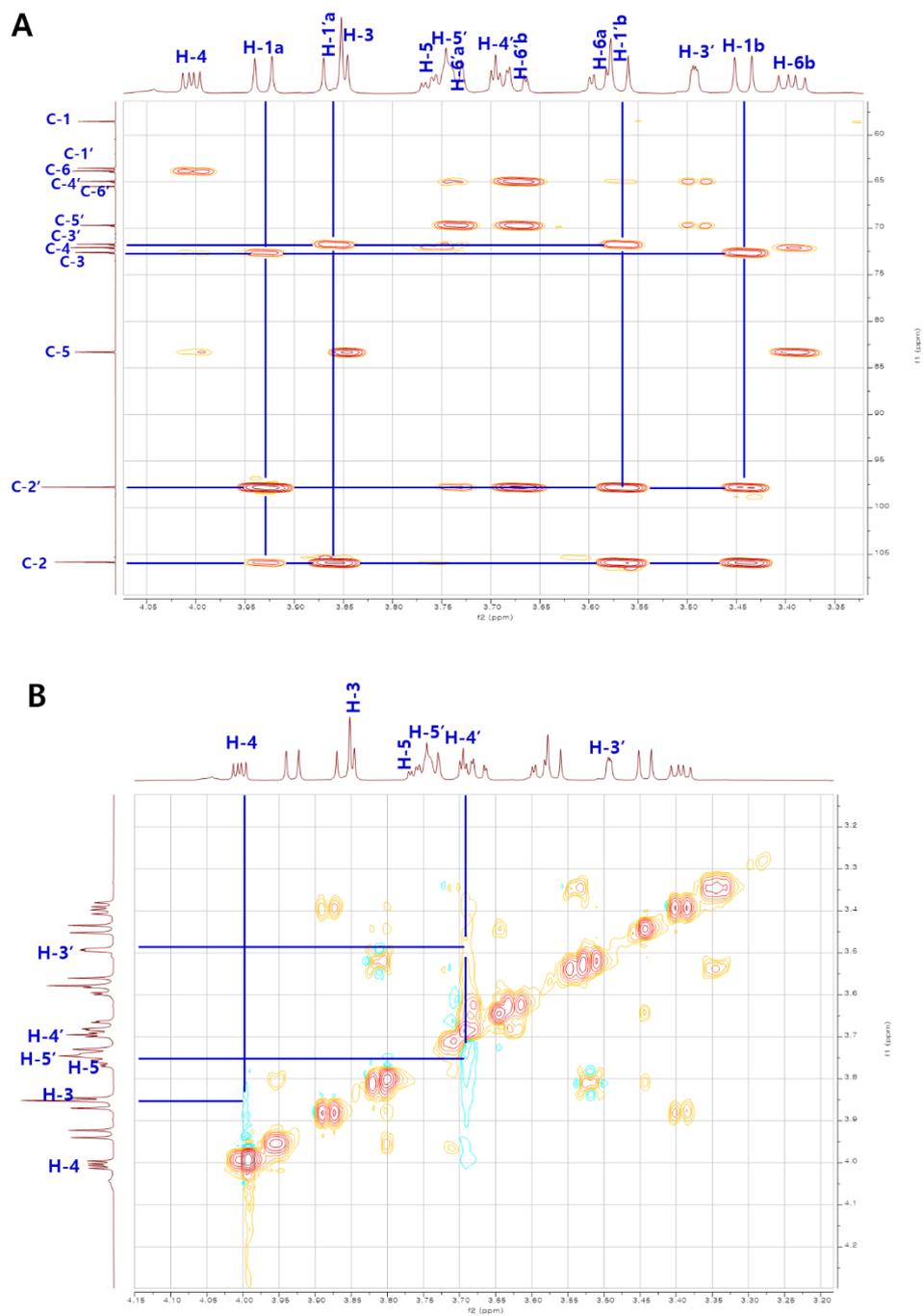


Figure S6. Heteronuclear multiple bond correlation (A) and nuclear overhauser enhancement spectroscopy (B) NMR spectra of di-*D*-psicose anhydride.