

Supporting Information 2-2

^{13}C -NMR quantification of rapid proton exchange at LewisX hydroxyl groups in water

Shinya Hanashima,¹ Koichi Kato,^{2,3} Yoshiki Yamaguchi¹

1. Structural Glycobiology Team, Systems Glycobiology Research Group, RIKEN Advanced Science Institute, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan.

2. Department of Structural Biology and Biomolecular Engineering, Graduate School of Pharmaceutical Sciences, Nagoya City University, 3-1 Tanabe-dori, Mizuho-ku, Nagoya 467-8603, Japan.

3. Okazaki Institute for Integrative Bioscience and Institute for Molecular Science, National Institutes of Natural Sciences, 5-1 Higashiyama, Myodaiji, Okazaki 444-8787, Japan.

e-mail: yyoshiki@riken.jp

^1H - and ^{13}C -NMR spectra of compounds 5, 7, 9 and 1











