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## **Supporting Information**

for

## Chemoenzymatic synthesis of *para*-nitrophenol (*pNP*)-tagged $\alpha$ 2–8-sialosides and high-throughput substrate specificity studies of $\alpha$ 2–8-sialidases<sup>†</sup>

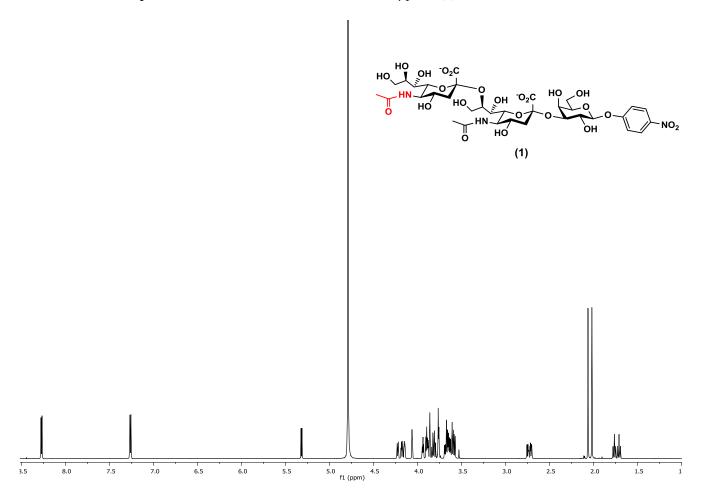
Nova Tasnima, <sup>a</sup> Hai Yu, <sup>a</sup> Yanhong Li, <sup>a</sup> Abhishek Santra, <sup>a</sup> and Xi Chen\* <sup>a</sup>

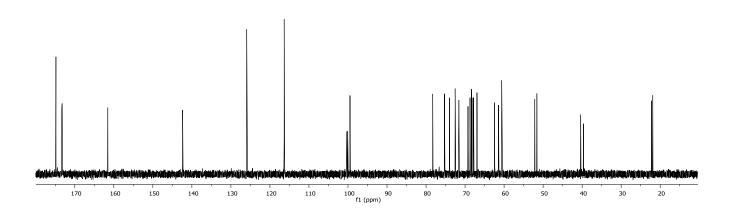
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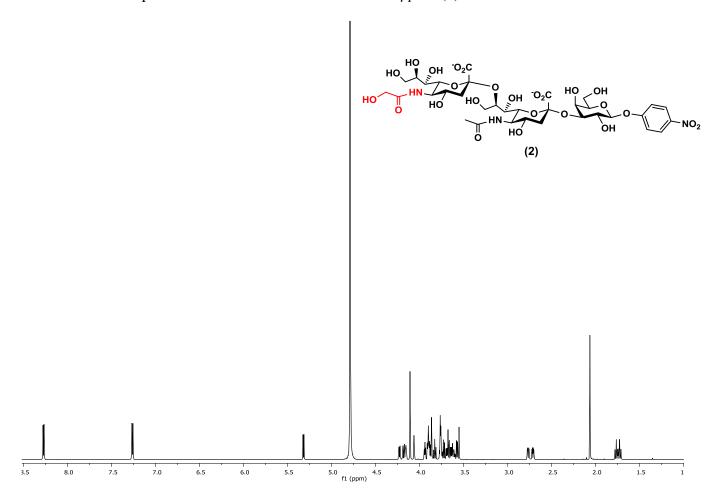
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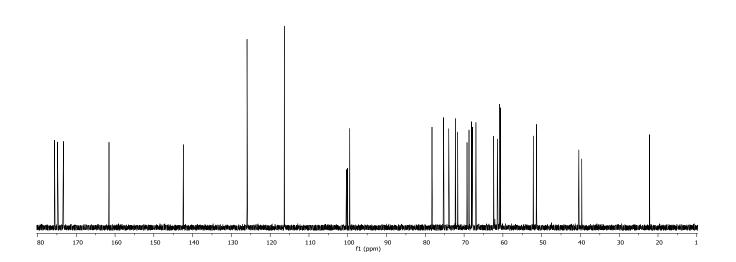
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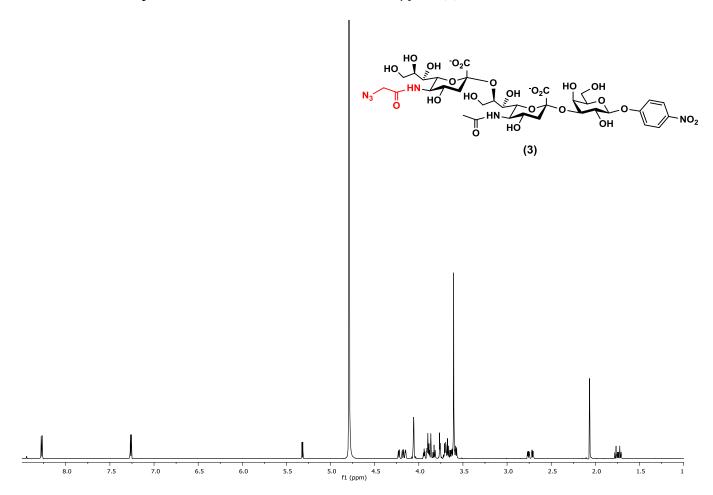


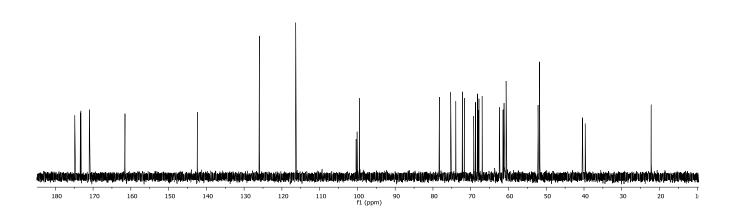
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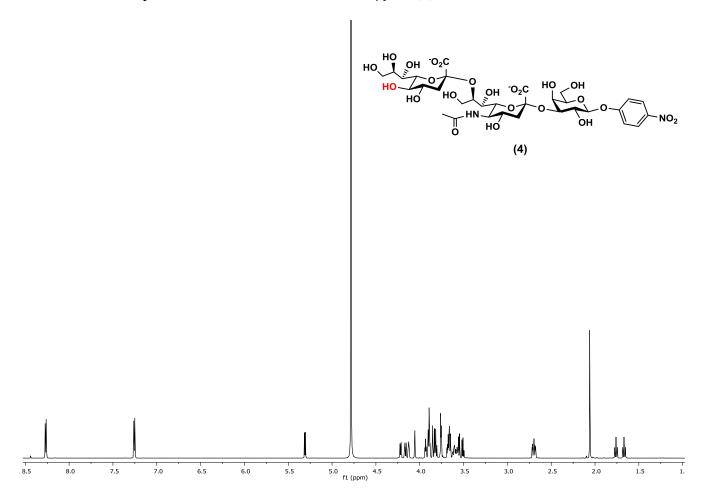


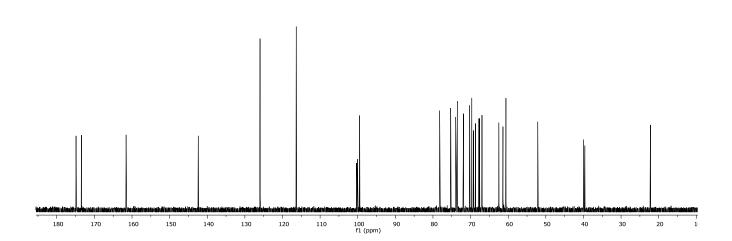
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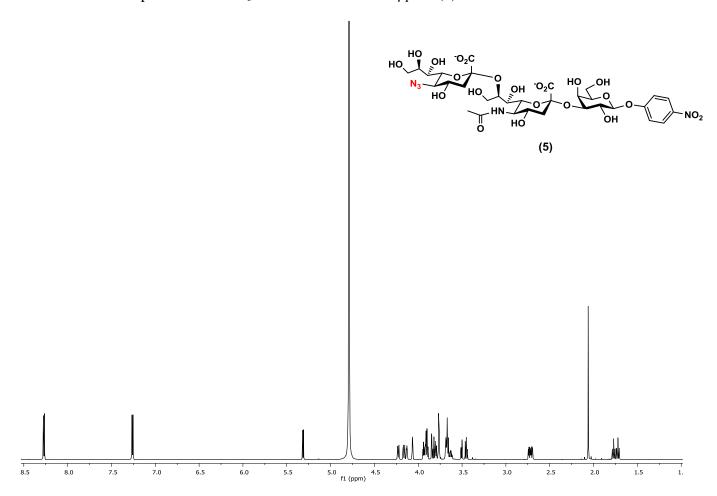


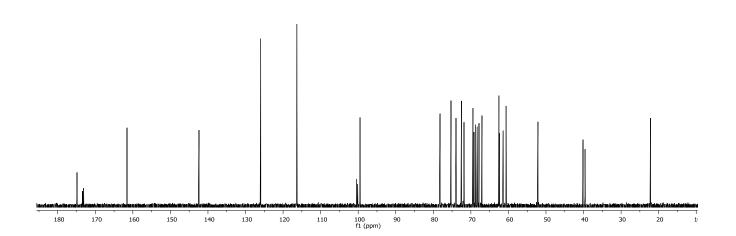
 $^{1}$ H and  $^{13}$ C NMR spectra of Kdn $\alpha$ 2–8Neu5Ac $\alpha$ 2–3Gal $\beta p$ NP (4)



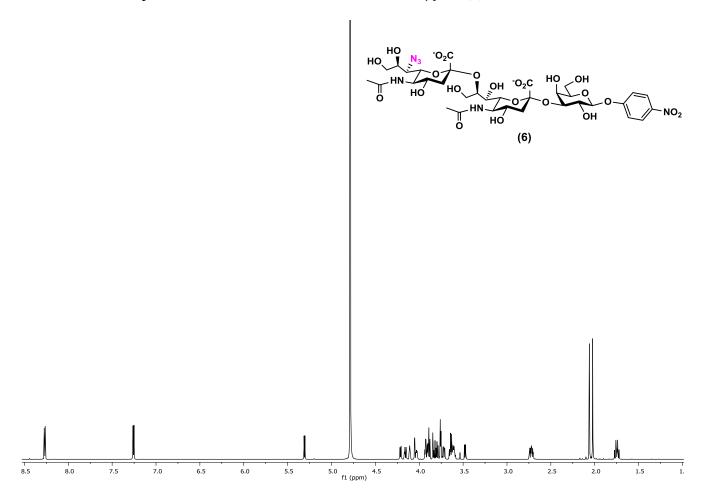


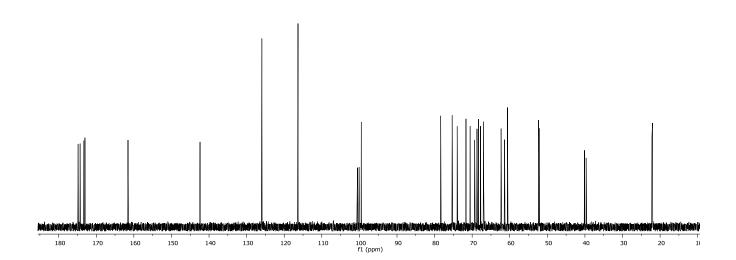
 $^{1}$ H and  $^{13}$ C NMR spectra of Neu5N<sub>3</sub> $\alpha$ 2–8Neu5Ac $\alpha$ 2–3Gal $\beta p$ NP (**5**)





 $^{1}$ H and  $^{13}$ C NMR spectra of Neu5Ac7N $_{3}$  $\alpha$ 2–8Neu5Ac $\alpha$ 2–3Gal $\beta p$ NP (6)





 $^{1}$ H and  $^{13}$ C NMR spectra of Neu5Ac9N $_{3}$  $\alpha 2-8$ Neu5Ac $\alpha 2-3$ Gal $\beta p$ NP (7)

