## **Supporting Information**

## for

## Chemoenzymatic synthesis of *para*-nitrophenol (*p*NP)-tagged α2–8-sialosides and high-throughput substrate specificity studies of α2–8-sialidases<sup>†</sup>

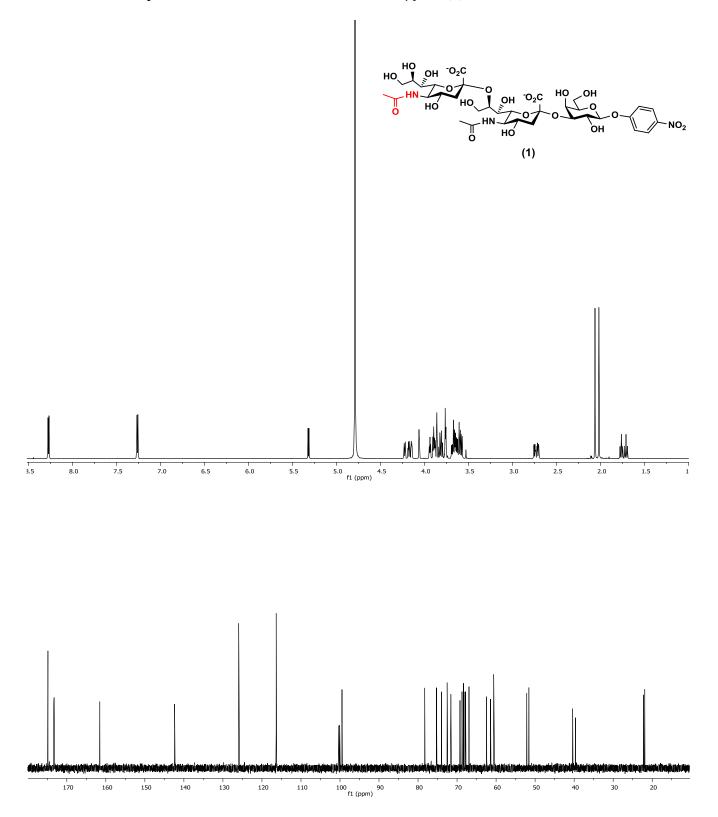
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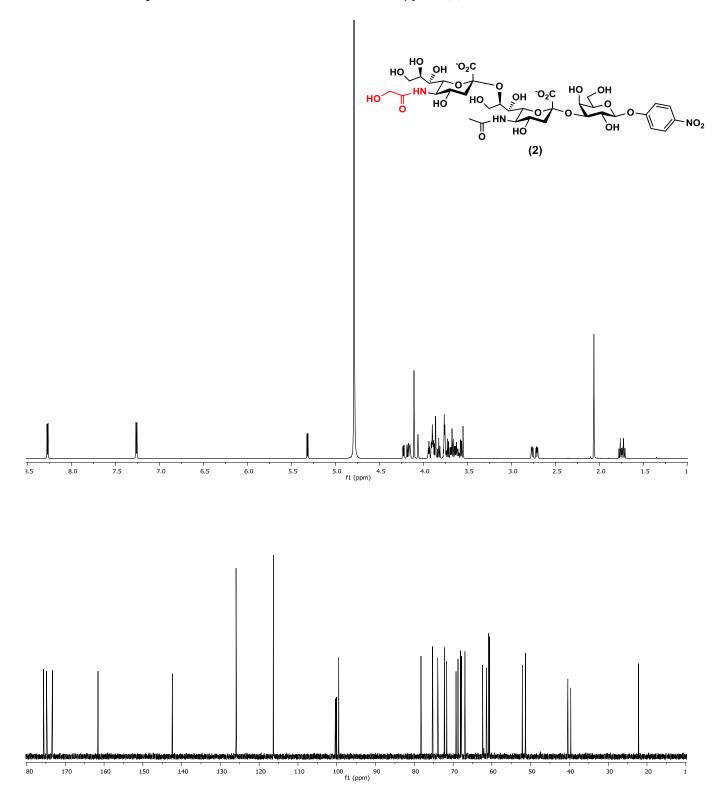
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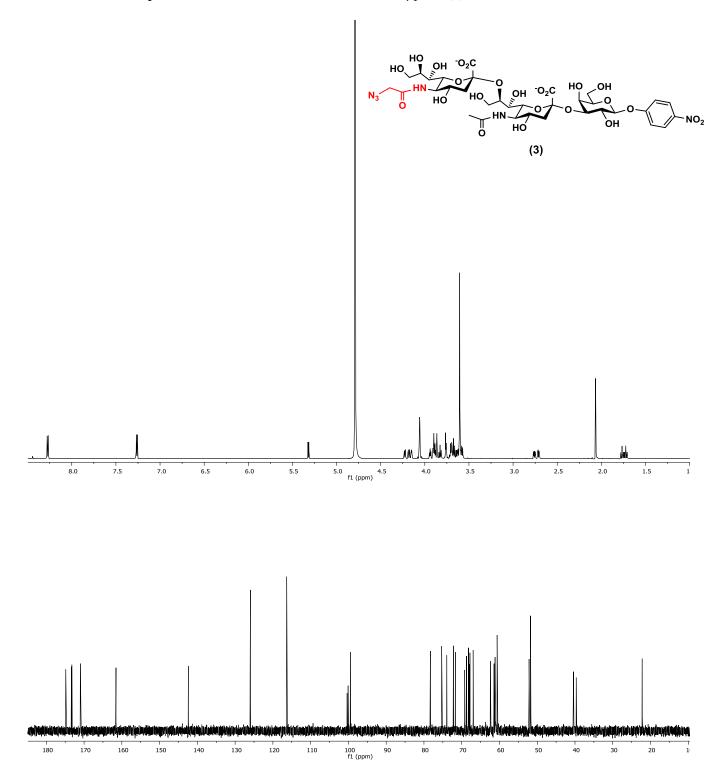
<sup>1</sup>H and <sup>13</sup>C NMR spectra of Neu5Ac $\alpha$ 2–8Neu5Ac $\alpha$ 2–3Gal $\beta$ pNP (1)



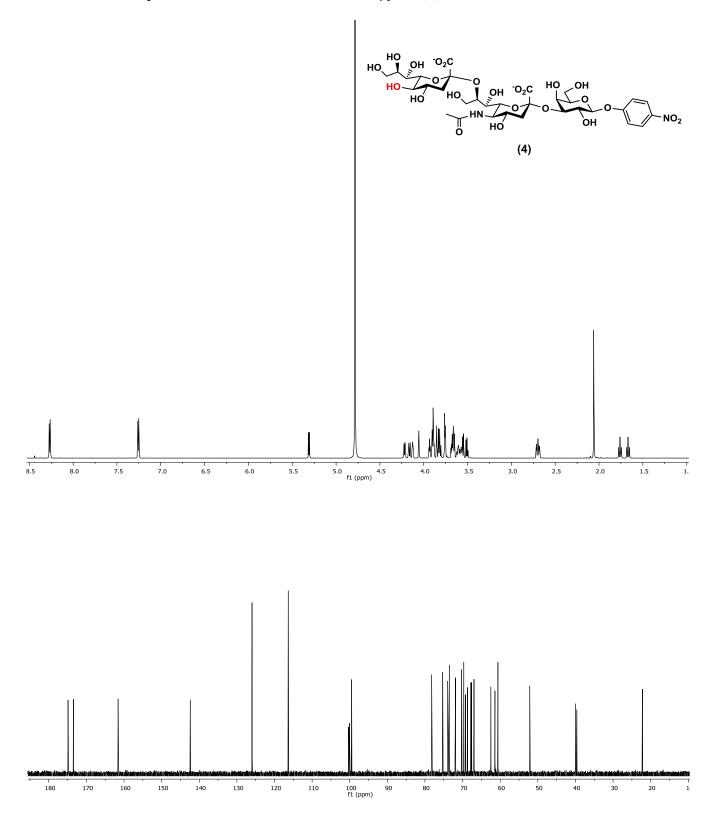
<sup>1</sup>H and <sup>13</sup>C NMR spectra of Neu5Gc $\alpha$ 2–8Neu5Ac $\alpha$ 2–3Gal $\beta$ pNP (2)



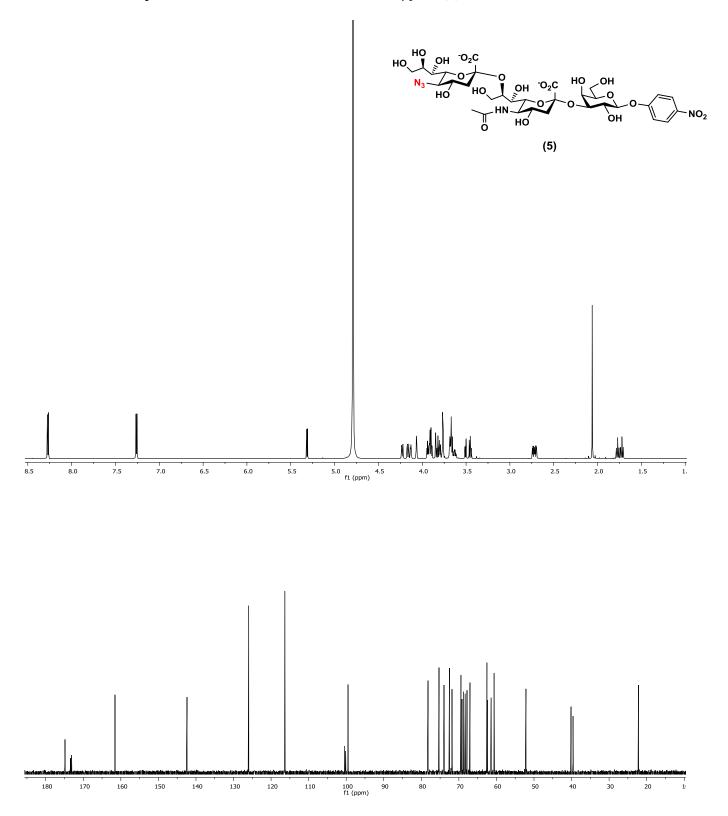
<sup>1</sup>H and <sup>13</sup>C NMR spectra of Neu5Az $\alpha$ 2–8Neu5Ac $\alpha$ 2–3Gal $\beta$ pNP (**3**)



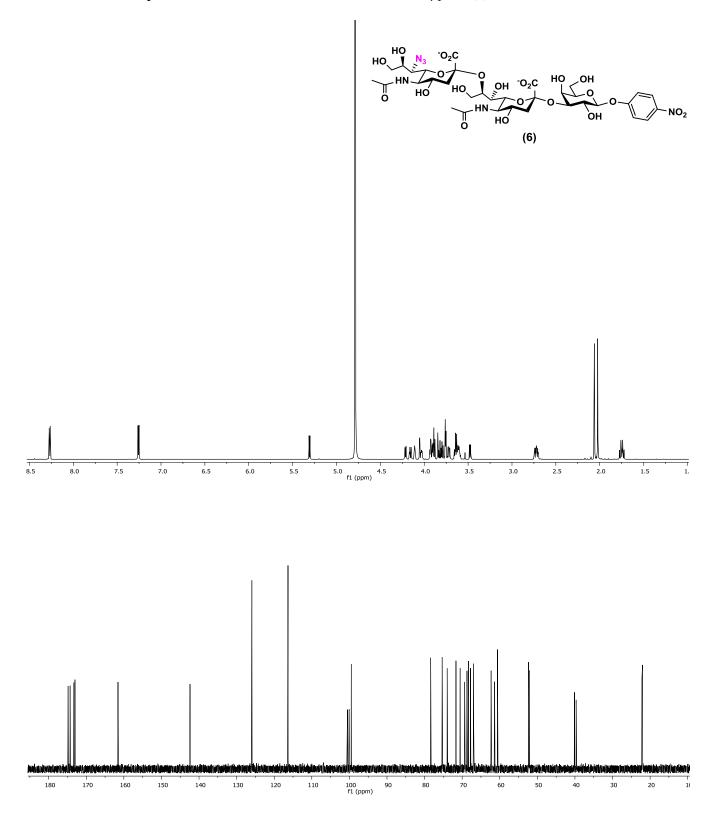
<sup>1</sup>H and <sup>13</sup>C NMR spectra of Kdn $\alpha$ 2–8Neu5Ac $\alpha$ 2–3Gal $\beta$ pNP (4)



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



<sup>1</sup>H and <sup>13</sup>C NMR spectra of Neu5Ac7N<sub>3</sub> $\alpha$ 2–8Neu5Ac $\alpha$ 2–3Gal $\beta$ *p*NP (**6**)



<sup>1</sup>H and <sup>13</sup>C NMR spectra of Neu5Ac9N<sub>3</sub> $\alpha$ 2–8Neu5Ac $\alpha$ 2–3Gal $\beta$ pNP (7)

