## **Supplementary Information**

Selective targeting of the interconversion between glucosylceramide and ceramide by scaffold tailoring of iminosugar inhibitors

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Figure S1.	<sup>1</sup> H and <sup>13</sup> C NMR spectra of compound <b>6b</b> 3

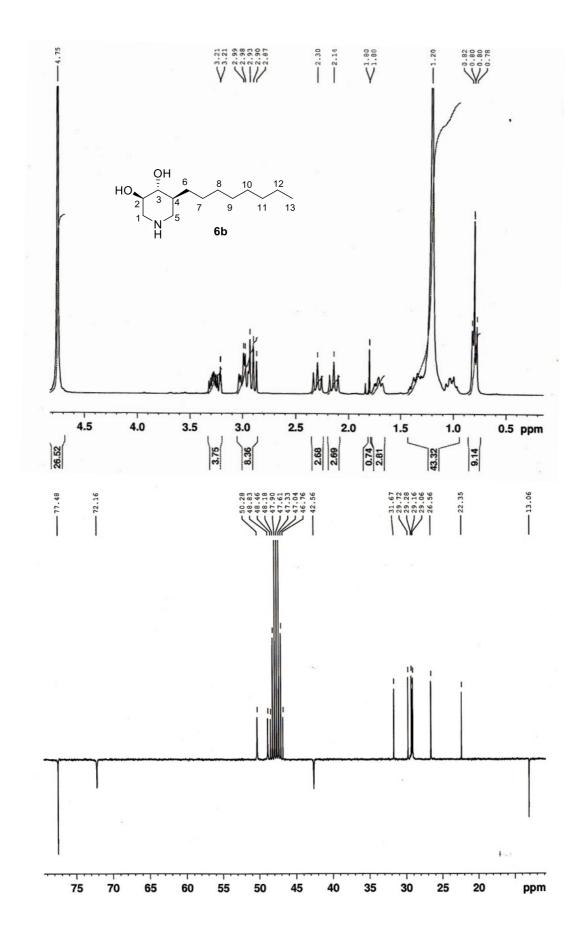


Figure S1.  $^{1}$ H and  $^{13}$ C spectra (300 MHz, 75 MHz, CD $_{3}$ OD) of **6b** 

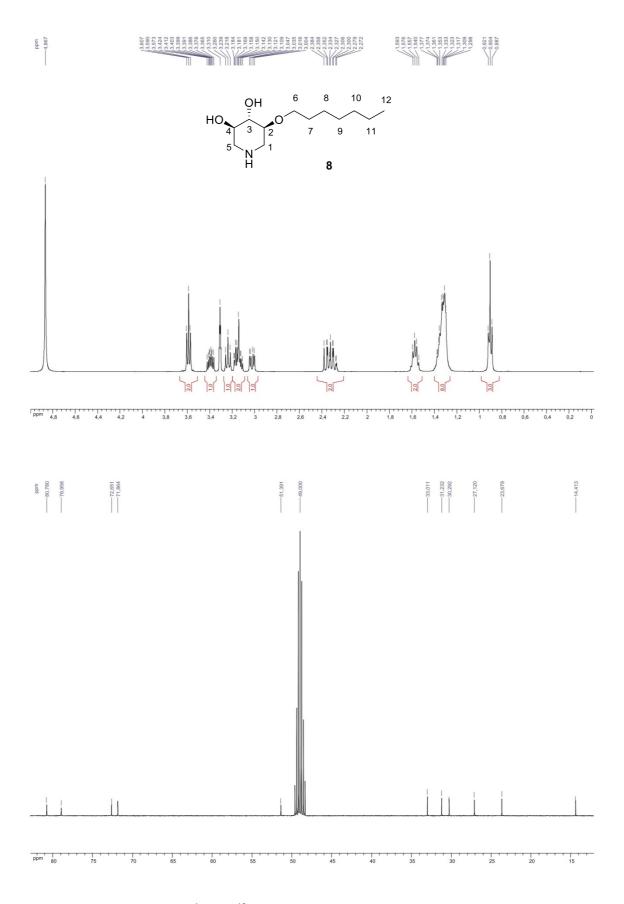


Figure S2.  $^{1}$ H and  $^{13}$ C spectra (300 MHz, 75 MHz, CD $_{3}$ OD) of 8

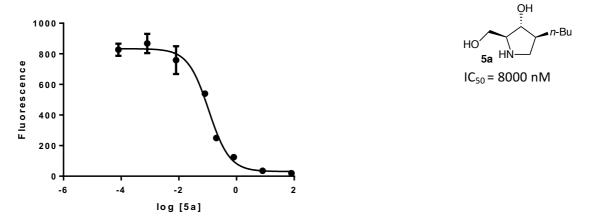


Figure S3: dose-response curve of recombinant GBA inhibition by compound 5a at pH 5.4

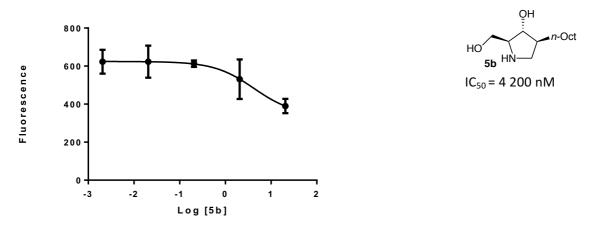


Figure S4: dose-response curve of recombinant GBA inhibition by compound 5b at pH 5.4

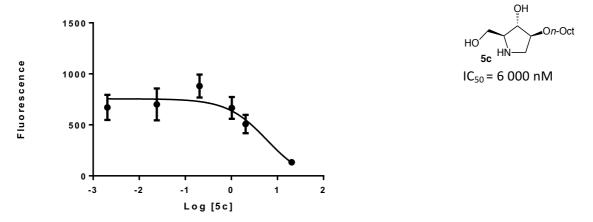


Figure S5: dose-response curve of recombinant GBA inhibition by compound 5c at pH 5.4

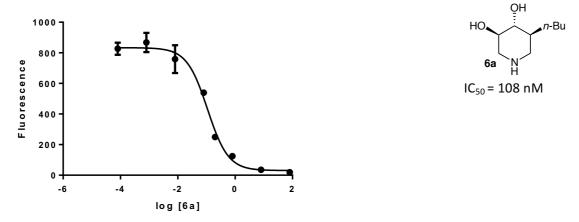


Figure S6: dose-response curve of recombinant GBA inhibition by compound 6a at pH 5.4

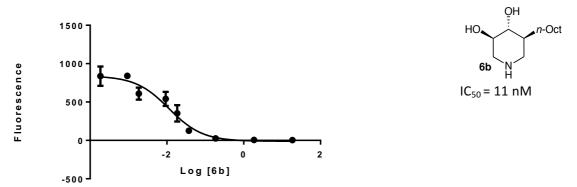


Figure S7: dose-response curve of recombinant GBA inhibition by compound 6b at pH 5.4

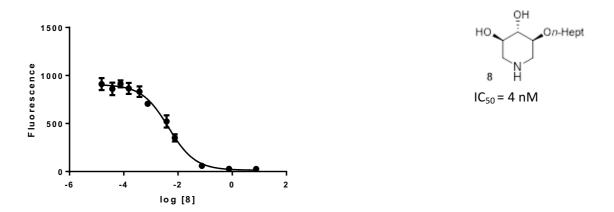


Figure S8: dose-response curve of recombinant GBA inhibition by compound 8 at pH 5.4