Supporting Information

for

Synthesis of (2S,3R)-3-amino-2-hydroxydecanoic acid and its enantiomer: a non-proteinogenic amino acid segment of the linear pentapeptide microginin

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Copies of NMR spectra
\(^1\)H NMR spectrum of compound 4a S3
\(^1\)H NMR spectrum of compound 4b S5
\(^1\)H NMR spectrum of compound 5a S7
\(^1\)H NMR spectrum of compound 5b S9
\(^1\)H NMR spectrum of compound 6a S11
\(^1\)H NMR spectrum of compound 7a S13
\(^1\)H NMR spectrum of compound 8a S15
\(^1\)H NMR spectrum of compound 9a S17
\(^1\)H NMR spectrum of compound 10a S19
\(^1\)H NMR spectrum of compound (±)-2a S21

\(^1\)H NMR spectrum of compound 4a S3
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\(^1\)H NMR spectrum of compound 10a S19
\(^1\)H NMR spectrum of compound (±)-2a S21

\(^{13}\)C NMR spectrum of compound 4a S6
\(^{13}\)C NMR spectrum of compound 4b S8
\(^{13}\)C NMR spectrum of compound 5a S10
\(^{13}\)C NMR spectrum of compound 5b S12
\(^{13}\)C NMR spectrum of compound 6a S14
\(^{13}\)C NMR spectrum of compound 7a S16
\(^{13}\)C NMR spectrum of compound 8a S18
\(^{13}\)C NMR spectrum of compound 9a S20
\(^{13}\)C NMR spectrum of compound 10a S22
\(^{13}\)C NMR spectrum of compound (±)-2a S24
$^1$H NMR and $^{13}$C NMR Spectra

Figure 1: $^1$H NMR (300 MHz, CDCl$_3$) Spectrum of Compound 4a.
Figure 2: $^{13}$C NMR (300 MHz, CDCl$_3$) Spectrum of Compound 4a.
Figure 3: $^1$H NMR (300 MHz, CDCl$_3$) Spectrum of Compound 4b.
Figure 4: $^{13}$C NMR (300 MHz, CDCl$_3$) Spectrum of Compound 4b.
Figure 5: H NMR (300 MHz, CDCl₃) Spectrum of Compound 5a.
Figure 6: $^{13}$C NMR (300 MHz, CDCl$_3$) Spectrum of Compound 5a.
**Figure 7:** $^1$H NMR (300 MHz, CDCl$_3$) Spectrum of Compound 5b.
Figure 8: $^{13}$C NMR (300 MHz, CDCl$_3$) Spectrum of Compound 5b.
Figure 9: $^1$H NMR (300 MHz, CDCl$_3$) Spectrum of Compound 6a.
Figure 10: $^{13}$C NMR (300 MHz, CDCl$_3$) Spectrum of Compound 6a.
Figure 11: 1H NMR (300 MHz, CDCl₃) Spectrum of Compound 7a.
Figure 12: $^{13}$C NMR (300 MHz, CDCl$_3$) Spectrum of Compound 7a.
Figure 13: 1H NMR (300 MHz, CDCl3) Spectrum of Compound 8a.
Figure 14: $^{13}$C NMR (300 MHz, CDCl$_3$) Spectrum of Compound 8a.
Figure 15: $^1$H NMR (300 MHz, CDCl$_3$) Spectrum of Compound 9e.
Figure 17: $^1$H NMR (300 MHz, CDCl$_3$) Spectrum of Compound 10a.
Figure 18: $^{13}$C NMR (300 MHz, CDCl$_3$) Spectrum of Compound 10a.
Figure 18: $^1$H NMR (300 MHz, D$_2$O) Spectrum of Compound 2a.
Figure 20: $^{13}$C NMR (300 MHz, D$_2$O) Spectrum of Compound 2a.