Supporting Information for

*Antioxidant Activity of Peptide-based Angiotensin Converting Enzyme Inhibitors*

by

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**Figure S1.** $^1$H NMR Spectrum of compound 22 in CDCl$_3$. 
Figure S2. $^{13}$C NMR Spectrum of compound 22 in CDCl$_3$.

Figure S3. $^{77}$Se NMR Spectrum of compound 22 in CDCl$_3$.
Figure S4. ESI-MS spectrum of compound 22. Calculated mass: 670.2007, found: 670.2640.
Figure S5. $^1$H NMR Spectrum of compound 23 in CDCl$_3$.

Figure S6. $^{13}$C NMR Spectrum of compound 23 in CDCl$_3$. 

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**Figure S7.** ESI-MS spectrum of compound 23. Calculated mass: 622.2563, found: 622.3636.

**Figure S8.** $^1$H NMR Spectrum of compound 24 in CDCl$_3$. 
Figure S9. $^{13}$C NMR Spectrum of compound 24 in CDCl$_3$.

Figure S10. $^{77}$Se NMR Spectrum of compound 24 in CDCl$_3$. 
Figure S11. ESI-MS spectrum of compound 24. Calculated mass: 622.2007, found: 622.1271.
Figure S12. $^1$H NMR Spectrum of compound 25 in CDCl$_3$.

Figure S13. $^{13}$C NMR Spectrum of compound 25 in CDCl$_3$. 
**Figure S14.** $^{77}$Se NMR Spectrum of compound 25 in CDCl$_3$.

**Figure S15.** ESI-MS spectrum of Compound 25. Calculated mass: 594.1694, found: 594.2136.
Figure S16. $^1$H NMR Spectrum of compound 26 in CDCl$_3$.

Figure S17. $^{13}$C NMR Spectrum of compound 26 in CDCl$_3$. 
**Figure S18.** $^{77}$Se NMR Spectrum of compound 26 in CDCl$_3$.

**Figure S19.** ESI-MS spectrum of compound 26. Calculated mass: 1073.2818, found: 1073.2656.
Figure S20. $^1$H NMR Spectrum of compound 27 in CDCl$_3$.

Figure S21. $^{13}$C NMR Spectrum of compound 27 in CDCl$_3$. 
**Figure S22.** ESI-MS spectrum of compound 27. Calculated mass: 979.3921, found 980.3397.

![ESI-MS spectrum of compound 27](image1)

**Figure S23.** $^1$H NMR Spectrum of compound 28 in CDCl$_3$.

![$^1$H NMR Spectrum of compound 28 in CDCl$_3$](image2)
Figure S24. $^{13}$C NMR Spectrum of compound 28 in CDCl$_3$.

Figure S25. $^{77}$Se NMR Spectrum of compound 28 in CDCl$_3$. 
Figure S26. ESI-MS spectrum of compound 28. Calculated mass: 979.2810, found 979.2982.

Figure S27. $^1$H NMR Spectrum of compound 29 in CDCl$_3$. 
**Figure S28.** $^{13}$C NMR Spectrum of compound 29 in CDCl$_3$.

**Figure S29.** $^{77}$Se NMR Spectrum of compound 29 in CDCl$_3$. 
**Figure S30.** ESI-MS spectrum of compound 29. Calculated mass: 923.2184, found 923.1868.

**Figure S31.** $^1$H NMR Spectrum of compound 30 in MeOH-d$_4$. 
**Figure S32.** $^{13}$C NMR Spectrum of compound 30 in MeOH-d$_4$.

**Figure S33.** $^{77}$Se NMR Spectrum of compound 30 in MeOH-d$_4$. 

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Figure S34. ESI-MS spectrum of compound 30. Calculated mass: 875.1762, found 875.1169.
Figure S35. $^1$H NMR Spectrum of compound 31 in MeOH-$d_4$.

Figure S36. $^{13}$C NMR Spectrum of compound 31 in MeOH-$d_4$. 
Figure S37. ESI-MS spectrum of compound 31. Calculated mass: 757.3053, found 757.2333.
Figure S38. $^1$H NMR Spectrum of compound 32 in MeOH-d$_4$.

Figure S39. $^{13}$C NMR Spectrum of compound 32 in MeOH-d$_4$. 

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**Figure S40.** $^{77}$Se NMR Spectrum of compound 32 in MeOH-d$_4$.

**Figure S41.** ESI-MS spectrum of compound 32. Calculated mass: 757.1942, found 757.2333.
**Figure S42.** $^1$H NMR Spectrum of compound 33 in MeOH-d$_4$.

![Figure S42. $^1$H NMR Spectrum of compound 33 in MeOH-d$_4$.](image1)

**Figure S43.** $^{13}$C NMR Spectrum of compound 33 in MeOH-d$_4$.

![Figure S43. $^{13}$C NMR Spectrum of compound 33 in MeOH-d$_4$.](image2)
**Figure S44.** $^{77}$Se NMR Spectrum of compound 33 in MeOH-d$_4$.

**Figure S45.** ESI-MS spectrum of compound 33. Calculated mass: 701.1316, found 701.1487.
Figure S46. $^1$H NMR Spectrum of compound 36 in CDCl₃.

Figure S47. $^{13}$C NMR Spectrum of compound 36 in CDCl₃.
Figure S48. ESI-MS spectrum of compound 36. Calculated mass: 624.2719, found 624.4609.
Figure S49. $^1$H NMR Spectrum of compound 37 in CDCl$_3$.

Figure S50. $^{13}$C NMR Spectrum of compound 37 in CDCl$_3$. 
Figure S51. ESI-MS spectrum of compound 37. Calculated mass: 983.4234, found 983.3778.

Figure S52. $^1$H NMR Spectrum of compound 38 in MeOH-d$_4$. 
Figure S53. $^{13}$C NMR Spectrum of compound 38 in MeOH-d$_4$.

Figure S54. ESI-MS spectrum of compound 38. Calculated mass: 783.3186, found 783.3188.
**Figure S55.** $^1$H NMR Spectrum of compound 39 in CDCl$_3$.

**Figure S56.** $^{13}$C NMR Spectrum of compound 39 in CDCl$_3$. 
**Figure S57.** $^{77}$Se NMR Spectrum of compound 39 in CDCl$_3$.

**Figure S58.** ESI-MS spectrum of compound 39. Calculated mass: 537.1480, found 537.1052.
Figure S59. $^1$H NMR Spectrum of compound 40 in CDCl$_3$.

Figure S60. $^{13}$C NMR Spectrum of compound 40 in CDCl$_3$. 
Figure S61. ESI-MS spectrum of compound 40. Calculated mass: 489.2035, found 489.1072.

Figure S62. $^1$H NMR Spectrum of compound 41 in CDCl$_3$. 
**Figure S63.** $^{13}$C NMR Spectrum of compound 41 in CDCl$_3$.

![13C NMR Spectrum of compound 41 in CDCl3](image)

**Figure S64.** $^{77}$Se NMR Spectrum of compound 41 in CDCl$_3$.

![77Se NMR Spectrum of compound 41 in CDCl3](image)
**Figure S65.** ESI-MS spectrum of compound 41. Calculated mass: 809.1755, found 809.1743.

**Figure S66.** $^1$H NMR Spectrum of compound 42 in CDCl$_3$. 
Figure S67. $^{13}$C NMR Spectrum of compound 42 in CDCl$_3$.

Figure S68. ESI-MS spectrum of compound 42. Calculated mass: 713.2866, found 713.2884.
Figure S69. $^1$H NMR Spectrum of compound 43 in CDCl$_3$.

Figure S70. $^{13}$C NMR Spectrum of compound 43 in CDCl$_3$. 
Figure S71. $^{77}$Se NMR Spectrum of compound 43 in CDCl$_3$.

Figure S72. ESI-MS spectrum of compound 43. Calculated mass: 609.0706, found 609.1763.
Figure S73. $^1$H NMR Spectrum of compound 44 in CDCl$_3$.

Figure S74. $^{13}$C NMR Spectrum of compound 44 in CDCl$_3$. 
**Figure S75.** ESI-MS spectrum of compound 44. Calculated mass: 513.1817, found 513.3591.
Figure S76. Mass spectrum of compound 33 after treating with PN.
**Figure S77.** Mass spectrum of compound 33 after treating with PN and GSH.
Figure S78. Mass spectrum of compound 33 after treating with H$_2$O$_2$ and GSH.
Figure S79. Mass spectrum of compound 33 after treating with H₂O₂ and GSH (after 24 h).
**Figure S80.** Mass spectrum of compound 33 after treating with H$_2$O$_2$ and GSH.
Figure S81. Mass spectrum of compound 33 after treating with GSH.
**Figure S82.** Mass spectrum of compound 33 after treating with H$_2$O$_2$. 
Figure S83. Mass spectrum of compound 33 after treating with H₂O₂ (after 24 h).
Figure S84. Mass spectrum of compound 33 after treating with H$_2$O$_2$, GSH and bromopropionic acid.