Supplementary materials

Synthesis and Pharmacological Evaluation of Donepezil-based Agents as New Cholinesterase/Monoamine Oxidase Inhibitors for the Potential Application against Alzheimer's Disease

Fan Li, Zhi-Min Wang, Jia-Jia Wu, Jin Wang, Sai-Sai Xie, Jin-Shuai Lan, Wei Xu, Ling-Yi Kong* and Xiao-Bing Wang*

State Key Laboratory of Natural Medicines, Department of Natural Medicinal Chemistry, China Pharmaceutical University, 24 Tong Jia Xiang, Nanjing 210009, People's Republic of China

* *Corresponding Authors. Tel/Fax: +86-25-83271405. E-mail: cpu_lykong@126.com; xbwang@cpu.edu.cn*

The ^1H NMR, ^{13}C NMR and HRMS spectra of representative compounds
(w1,2,3,6,7,10,11,14,15,18,22,23).

Figure 1a. ^1H NMR Spectrum of w1 in DMSO

Figure 2a. ¹H NMR Spectrum of **w2** in DMSO

Figure 2b. ¹³C NMR Spectrum of **w2** in DMSO

Figure 2c. HRMS Spectrum of w2

Figure 3a. ¹H NMR Spectrum of w3 in DMSO

Figure 3b. ^{13}C NMR Spectrum of **w3** in DMSO

Figure 3c. HRMS Spectrum of **w3**

Figure 4a. ¹H NMR Spectrum of **w6** in DMSO

Figure 4b. ¹³C NMR Spectrum of **w6** in DMSO

Figure 4c. HRMS Spectrum of w6

Figure 5a. ¹H NMR Spectrum of w7 in DMSO

Figure 5b. ^{13}C NMR Spectrum of **w7** in DMSO

Figure 5c. HRMS Spectrum of **w7**

Figure 6a. ¹H NMR Spectrum of **w10** in DMSO

Figure 6b. ^{13}C NMR Spectrum of **w10** in DMSO

Figure 6c. HRMS Spectrum of **w10**

Figure 7a. ¹H NMR Spectrum of **w11** in DMSO

Figure 7b. ¹³C NMR Spectrum of **w11** in DMSO

Figure 7c. HRMS Spectrum of **w11**

Figure 8a. ¹H NMR Spectrum of **w14** in DMSO

Figure 8b. ^{13}C NMR Spectrum of **w14** in DMSO

Figure 8c. HRMS Spectrum of **w14**

Figure 9a. ^1H NMR Spectrum of **w15** in DMSO

Figure 9b. ^{13}C NMR Spectrum of **w15** in DMSO

Figure 9c. HRMS Spectrum of **w15**

Figure 10a. ¹H NMR Spectrum of **w18** in DMSO

Figure 10b. ^{13}C NMR Spectrum of **w18** in DMSO

Figure 10c. HRMS Spectrum of **w18**

Figure 11a. ¹H NMR Spectrum of w22 in DMSO

Figure 11b. ¹³C NMR Spectrum of w22 in DMSO

Figure 11c. HRMS Spectrum of **w22**

Figure 12a. ¹H NMR Spectrum of **w23** in DMSO

Figure 12b. ^{13}C NMR Spectrum of w23 in DMSO

Figure 12c. HRMS Spectrum of w23