Saponins with Neuroprotective Effects from the Roots of *Pulsatilla cernua*

**Supplementary Materials**

S1. $^1$H-NMR spectrum (600 MHz, pyridine-$d_5$) of compound 1.
S2. $^13$C-NMR spectrum (150 MHz, pyridine-$d_5$) of compound 1
S3. HSQC spectrum of compound 1.
S4. HMBC spectrum of compound 1.
S5. HSQC-TOCSY spectrum of compound 1.
S6. $^1$H-NMR spectrum (600 MHz, pyridine-$d_5$) of compound 2.
S7. $^13$C-NMR spectrum (150 MHz, pyridine-$d_5$) of compound 2
S8. HSQC spectrum of compound 2.
S9. HMBC spectrum of compound 2.
S10. $^1$H-NMR spectrum (600 MHz, pyridine-$d_5$) of compound 3.
S11. $^13$C-NMR spectrum (150 MHz, pyridine-$d_5$) of compound 3
S12. HSQC spectrum of compound 3.
S13. HMBC spectrum of compound 3.
S14. $^1$H-NMR spectrum (600 MHz, pyridine-$d_5$) of compound 4.
S15. $^13$C-NMR spectrum (150 MHz, pyridine-$d_5$) of compound 4
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S2. $^{13}$C-NMR spectrum (150 MHz, pyridine-$d_5$) of compound 1.
S3. HSQC spectrum of compound 1.
S4. HMBC spectrum of compound 1.
S5. HSQC-TOCSY spectrum of compound 1.
S6. $^1$H-NMR spectrum (600 MHz, pyridine-$d_5$) of compound 2.
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