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Supporting Information

Isomeric C\textsubscript{12}-Alkamides from the Roots of *Echinacea purpurea* Improve Basal and Insulin-Dependent Glucose Uptake in 3T3-L1 Adipocytes

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Fig. 1S Adipocyte differentiation of DI protocol-treated 3T3-L1 preadipocytes with DMSO, 100 μg/mL DCM root extract of *Echinacea purpurea*, 100 μg/mL fraction A, 100 μg/mL fraction D, 30 μM compounds 1/2, and 1 μM Rosi, respectively.
**Fig. 2S** Effect of compounds 3 and 4 at 30 μM concentration on insulin-dependent glucose uptake. DMSO (vehicle) was set to 1 and the results normalized to this, while Rosi (1 μM) was the positive control. All values are expressed as mean ± SD of three independent experiments in triplicates. *p < 0.001 indicates significance relative to DMSO in each treatment.
**Fig. 3S** HR-ESI-MS spectrum of compounds 1/2 with a quasi-molecular precursor ion at $m/z$ 262.2176 [M + H]$^+$. The peak at $m/z$ 545 corresponds to the adduct [2M + Na]$^+$. 
Fig. 4S MS/MS spectrum of the quasi-molecular precursor ion ($m/z$ 262 [M + H]$^+$) of compounds 1/2.
Fig. 5S $^1$H NMR spectrum of compounds 1/2.
Fig. 6 $^1$H NMR spectrum of compounds 1/2 expanded in the region of $\approx 0.4$–$1.5$ ppm.
Fig. 7S $^1$H NMR spectrum of compounds 1/2 expanded in the region $\approx 1.4$–$3.0$ ppm.
Fig. 8S $^1$H NMR spectrum of compounds 1/2 expanded in the region $\approx 2.6$–3.8 ppm.
Fig. 9S $^1$H NMR spectrum of compounds 1/2 expanded in the region $\approx 5.15$–$6.40$ ppm.
Fig. 10S $^1$H NMR spectrum of compounds 1/2 expanded in the region $\approx$ 6.94–7.34 ppm.
Fig. 11S $^1$H–$^1$H COSY spectrum of compounds 1/2.