NMR-based metabolomic analysis for the effects of alanyl-glutamine supplementation on C2C12 myoblasts injured by energy deprivation

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Figure Legends

Figure S1. A representative 1D $^1$H NMR spectrum of Ala-Gln dissolved in D$_2$O recorded on 850 MHz NMR spectrometer at 298K.

Figure S2. A representative 2D $^1$H-$^1$C HSQC spectrum of aqueous extracts derived from C2C12 myoblast cells recorded on 850 MHz NMR spectrometer at 298K in PBS (pH 7.4).

Figure S3. A selected region (0.8-2.8 ppm) of a representative 2D $^1$H-$^1$H TOCSY spectrum of aqueous extracts derived from C2C12 cells recorded at 298K in PBS (pH 7.4). Resonance assignments are labeled.

Figure S4. A selected region (2.0-4.6 ppm) of a representative 2D $^1$H-$^1$H TOCSY spectrum of aqueous extracts derived from C2C12 cells recorded at 298K in PBS (pH 7.4). Resonance assignments are labeled.

Figure S5. A selected region (5.5-9.5 ppm) of a representative 2D $^1$H-$^1$H TOCSY spectrum of aqueous extracts derived from C2C12 cells recorded at 298K in PBS (pH 7.4). Resonance assignments are labeled.
Fig. S1 A representative 1D $^1$H NMR spectrum of Ala-Gln dissolved in D$_2$O recorded on 850 MHz NMR spectrometer at 298K.
Fig. S2 A representative 2D $^1$H-$^{13}$C HSQC spectrum of aqueous extracts derived from C2C12 myoblast cells recorded on 850 MHz NMR spectrometer at 298K in PBS (pH 7.4).
Fig. S3 A selected region (0.8-2.8 ppm) of a representative 2D $^1$H-$^1$H TOCSY spectrum of aqueous extracts derived from C2C12 cells recorded at 298K in PBS (pH 7.4). Resonance assignments are labeled.
Fig. S4 A selected region (2.0-4.6 ppm) of a representative 2D $^1$H-$^1$H TOCSY spectrum of aqueous extracts derived from C2C12 cells recorded at 298K in PBS (pH 7.4). Resonance assignments are labeled.
**Fig. S5** A selected region (5.5-9.5 ppm) of a representative 2D $^1$H-$^1$H TOCSY spectrum of aqueous extracts derived from C2C12 cells recorded at 298K in PBS (pH 7.4). Resonance assignments are labeled.