Electronic supplementary material

Methods

*HPLC organic acid analysis* Differentiated myotubes were resuspended in PBS, lysed by sonication and diluted to a protein concentration of 2 mg/ml in 20 mmol/l K₂PO₄. Proteins were precipitated by adding 1% perchlorate (vol./vol.) followed by centrifugation for 10 min at 10,000 g. Following 0.2 µmol/l filtration of the supernatant fraction, 20 µl of sample was injected into a 0.44 mm reverse-phase C-18 column (Agilent, Santa Clara, CA, USA) using an isocratic solution of 20 mmol/l K₂PO₄ as the mobile phase with detection at 210 nm. Metabolites were identified by co-elution with known standards.