



**Supplementary Figure 1.**

**Effect of glucose, palmitic and palmitoleic acid on C2C12 cell death.**

Differentiated C2C12 myotubes were cultured in differentiation medium (DM) containing different concentrations of glucose (glucose free (GF, 0.0 g/L glucose), low glucose (LG, 1.0 g/L glucose) or high glucose (HG, 4.5 g/L glucose)) (a), or palmitic acid (C16:0) or palmitoleic acid (C16:1) (b) for 24 hours. Cell death was measured by the release of lactate dehydrogenase (LDH) into the culture medium (n=3).