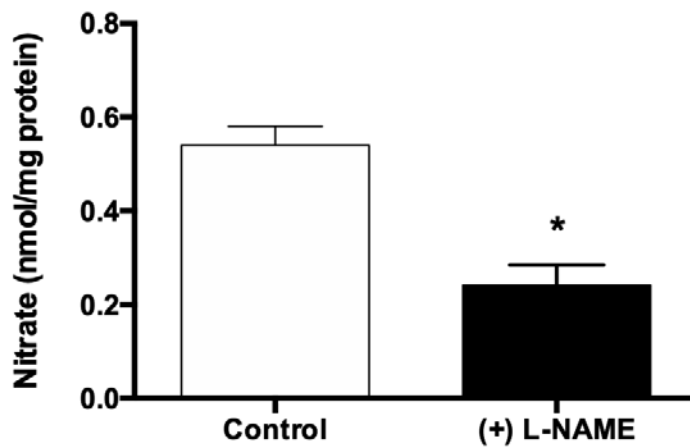


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Supplementary Figure 1S. Expression of differentiation markers in myotubes - myosin heavy chains. Primary human skeletal muscle cells (5×10^5 cells) were plated in a 60-mm dish. Cell lysate was collected before (undifferentiated myoblasts or UD) and 1 (D1), 3 (D3) and 5 (D5) days after differentiation. The expressions of myosin heavy chain (MHC) and GAPDH were measured by western blots. Data are mean \pm SEM ($n = 3$). * $P < 0.05$ compared with undifferentiated cells (UD) and tested by ANOVA with Tukey's multiple comparison.



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3 **Supplementary Figure 2S. Effect of NOS inhibition on the basal nitrate levels in**
4 **myotubes.** L-NAME was added into myotubes cultured in basal media and incubated in
5 tri-gas incubator at 5% O₂ for 24 hours. After washing with PBS, cell lysates were
6 collected in lysis buffer. Intracellular nitrate levels were measured by chemiluminescence
7 and normalized to protein concentration. Data are mean ± SEM (n=4). **P* < 0.05
8 compared with control and tested by t-test.