



Supplementary information, Fig. S7 NALA increases the lactate level and lactylation of α -MHC K1897, further increasing the α -MHC-Titin interaction.

a, b Relative content of intracellular (**a**) and extracellular (**b**) lactate in H9c2 cells after 24h of NaCl or Ang II treatment (n=10 per group). **c, d** Relative content of lactate in myocardial tissues (**c**) and serum (**d**) of mice after NaCl or Ang II treatment (n=10 per group). **e, f** Relative content of intracellular (**e**) and extracellular (**f**) lactate in NaCl or Ang II-stimulated H9c2 cells with or without NALA treatment as indicated (n=10 per group). **g** H9c2 cells with or without NALA treatment were lysed and immunoprecipitated using control IgG or anti- α -MHC antibody, followed by detection of α -MHC K1897 Lactyl Lysine. **h** NaCl or Ang II-stimulated H9c2 cells with or without NALA treatment were lysed and immunoprecipitated using control IgG or anti-Titin antibody, followed by detection of α -MHC. (**g, h**) Anti- α -MHC antibody, anti-Titin antibody or control IgG were added. (**a-d**) Data are expressed as means \pm SD. Statistical significance was assessed by Student's *t*-test (***) $P < 0.001$). (**e, f**) Data are expressed as means \pm SD. Statistical significance was assessed by 2-way ANOVA with Bonferroni multiple comparisons test (P values adjusted for 6 comparisons, *** $P < 0.001$).