Aldehyde dehydrogenase 2 activation in aged heart improves the autophagy by reducing the carbonyl modification on SIRT1

Supplementary Material

Supplementary Table 1

General features of young (4 mo) and aged (22 mo) mice

Mouse group	Young	Aged
Body weight(BW, g)	24.2 ± 1.5	32.3 ± 0.9*
Heart weight (HW, mg)	140 ± 4	165 ± 6*
HW/BW (mg/g)	5.78 ± 0.26	5.11 ± 0.66
Normalized LV mass (mg/g)	2.17±0.5	2.25±0.3
Fractional shortening (%)	48.6±1.46	46.5±3.4
Heart rate (beats.min^{-1})	465±12	458±32

Values are means ± SEM, n=10 for both groups, *P<0.05 vs Young

Supplementary Table 2

General features of WT and ALDH2 KO mice

Mouse group	WT	ALDH2 KO
Body weight (g)	25.8 ± 1.2	23.5 ± 1.5
Heart weight (mg)	145± 9	143± 11
Heart weight/body weight ratio (mg/g)	5.62± 0.51	6.08 ± 0.42
Liver weight (g)	1.35±0.03	1.32±0.05
Liver weight/body weight ratio (mg/g)	51.2±2.50	56.2±3.33
Kidney weight (mg)	355±8	338±12
Kidney weight/body weight ratio (mg/g)	13.75±0.67	14.38±0.80
Fractional shortening (%)	47.6±1.5	42.3±2.3
Heart Rate (beats.min^{-1})	452±18	460±30

Values are means ± SEM, n=10 for each groups