

# Aldehyde dehydrogenase 2 inhibits inflammatory response and regulates atherosclerotic plaque

## Supplementary Material

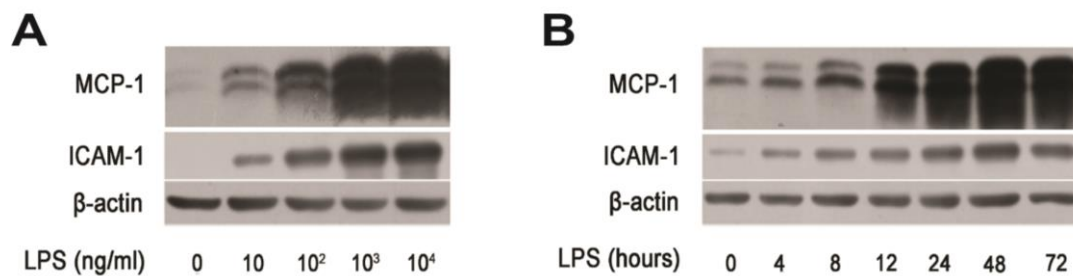
This file includes:

**Supplementary Figure S1:** LPS induced MCP-1 and ICAM-1 expression in HUVECs.

**Supplementary Figure S2:** The effects of Daidzin and Alda-1 on ALDH2 activity.

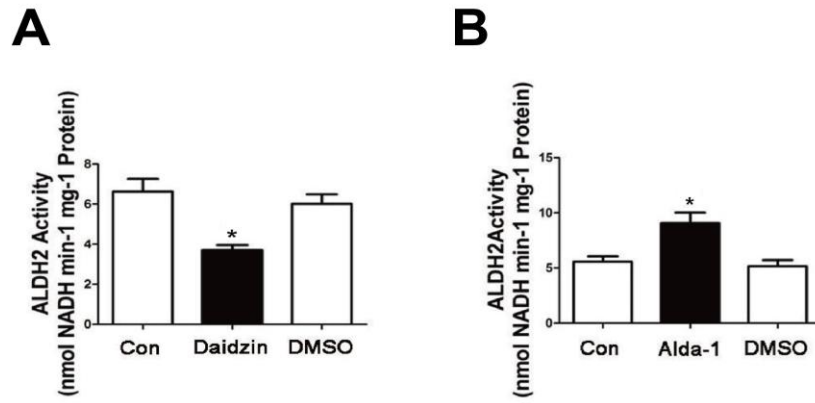
**Supplementary Table S1:** Body weight in three groups of mice.

**Supplementary Table S2:** Serum lipid levels in ApoE<sup>-/-</sup> mice.



**Supplementary Figure S1.** LPS induced MCP-1 and ICAM-1 expression in HUVECs.

Western blot analysis for LPS-induced concentration-dependent (**A**) and time-dependent (**B**) MCP-1 and ICAM-1 expression changes in HUVECs.



**Supplementary Figure S2:** The effects of Daidzin and Alda-1 on ALDH2 activity.

Histograms of effects of 25µM Daidzin (**A**) and 20µM Alda-1 (**B**) on ALDH2 activity in HUVECs. Values are expressed as means±SEM from three independent experiments. \*: P<0.05 vs control.

**Supplementary Table S1:** Body weight in three groups of mice.

	Baseline (n=60)	End of 8th weeks (n=60)	End of 12 weeks (n=58)		
			Lv-GFP group (n=20)	Lv-ALDH2 -overexpression group (n=19)	Lv-ALDH2 -RNAi group (n=19)
Body weight (g)	20.9±0.8	30.1±2.0	32.0±1.9	31.8±2.0	31.3±1.6

Data were displayed as mean±SEM.

**Supplementary Table S2:** Serum lipid levels in ApoE<sup>-/-</sup> mice.

	TC	TG	HDL-C	LDL-C
	(mmol/L)	(mmol/L)	(mmol/L)	(mmol/L)
Lv-GFP group	16.66±1.47	0.66±0.13	1.74±0.15	8.22±0.86
Lv-ALDH2-overexpression group	16.79±1.44	0.62±0.14	1.81±0.14	8.72±0.88
Lv-ALDH2-RNAi group	15.94±1.25	0.70±0.14	1.72±0.15	8.80±0.80

ApoE<sup>-/-</sup> mice were treated with a high-fat diet (15% cocoa butter and 0.25% cholesterol), as described in the methods section. Data were showed as mean±SEM. TC: total cholesterol; TG: triglyceride