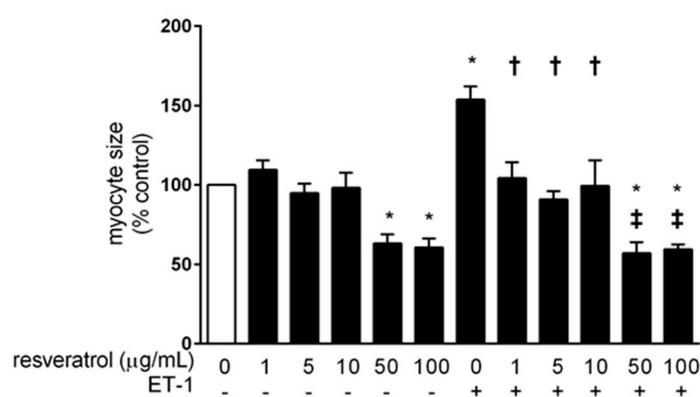


## Supplementary Materials: Disparate Effects of Stilbenoid Polyphenols on Hypertrophic Cardiomyocytes In Vitro vs. in the Spontaneously Hypertensive Heart Failure Rat

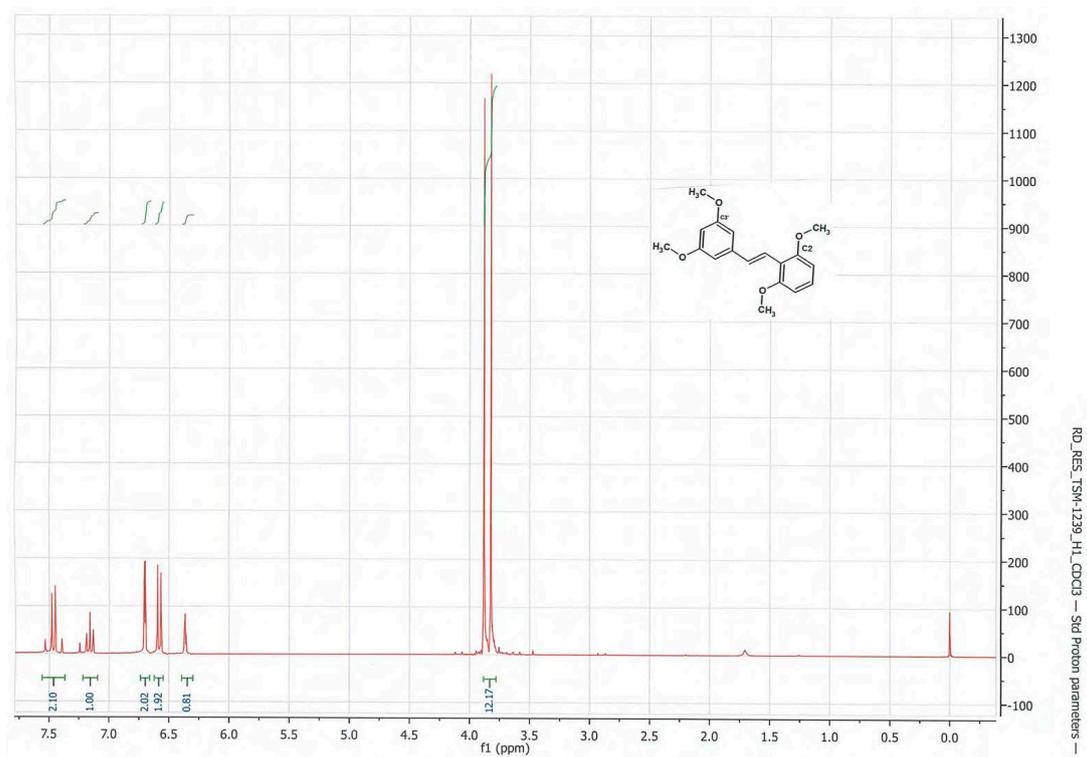
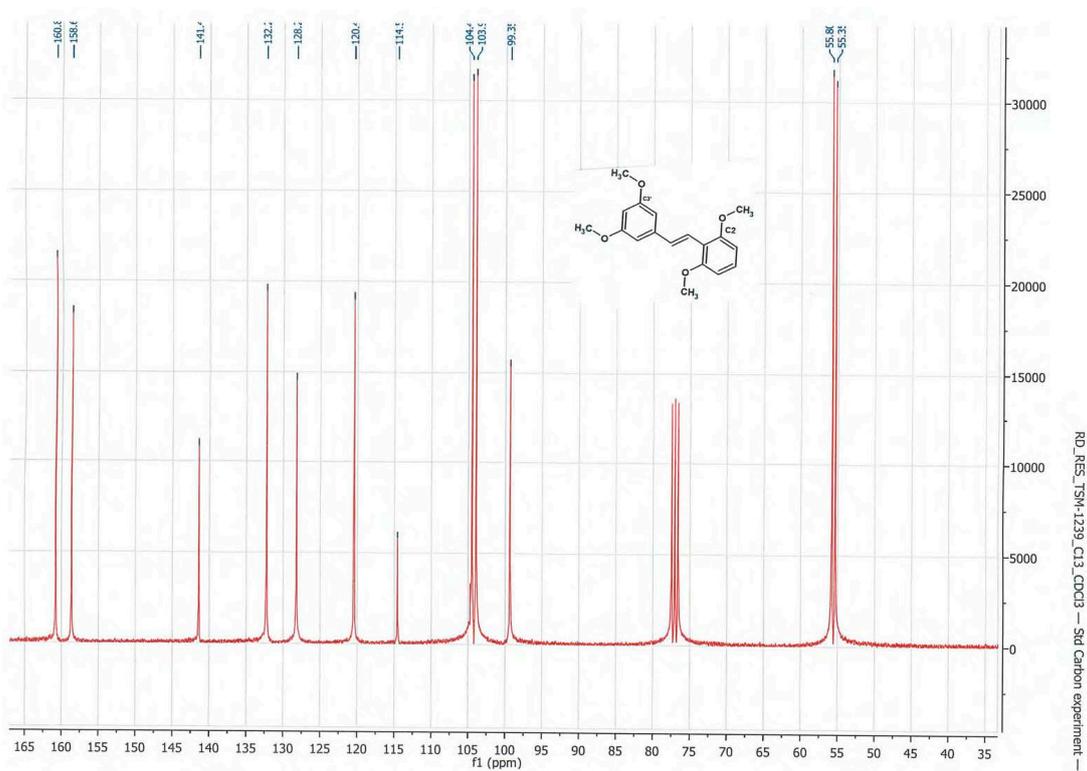
Bolanle C. Akinwumi, Pema Raj, Danielle I. Lee, Crystal Acosta, Liping Yu, Samuel M. Thomas, Kalyanam Nagabhushanam, Muhammed Majeed, Neal M. Davies, Thomas Netticadan and Hope D. Anderson

### Resveratrol Prevents ET1-Induced Cardiomyocyte Enlargement

Myocytes were rendered quiescent by serum deprivation for 24 h and pretreated with resveratrol (1–100  $\mu\text{g/mL}$ ). Following the 1 h pretreatment, resveratrol remained in the culture media for the remainder of the experiment. Hypertrophy was stimulated by addition of ET1 (0.1  $\mu\text{M}$ ; 24 h; Figure S1). Lower concentrations of resveratrol (1–10  $\mu\text{g/mL}$ ) abolished ET1-induced myocyte enlargement, but did not affect untreated myocytes. In contrast, higher concentrations of resveratrol (50–100  $\mu\text{g/mL}$ ) markedly reduced cell size in the presence and absence of ET1, suggesting toxicity.



**Figure S1.** Resveratrol attenuates ET-1-induced cardiomyocyte hypertrophy. \*  $p < 0.05$  and \*\*  $p < 0.01$  vs. control (open bars); †  $p < 0.05$  and ‡  $p < 0.01$  vs. ET1.

Figure S2.  $^1\text{H-NMR}$  of tetramethoxystilbene.Figure S3.  $^{13}\text{C-NMR}$  of tetramethoxystilbene.

