



**Figure S1.** Effects of ABT737 and 4-PBA on AngII-induced EC senescence and effect of Olmesartan on AngII-induced THP-1 cell adhesion to ECs. (a, b and c) rat aortic ECs pretreated with a senolytic drug, ABT737 (ABT, 30 nM), or vehicle (vehi, 0.1% DMSO final) for 30 min were stimulated with 100 nM AngII (AII) for 48 hours.  $\beta$  galactosidase positive cells in 10 HPFs were counted in each group and expressed as % senescent cells per total cells. (d, e and f) rat aortic ECs pretreated with chemical ER chaperone, 4-PBA (PBA, 1 mM) or vehicle (vehi, PBS 0.1% final) were stimulated with 100 nM AngII (AII) for 48 hours.  $\beta$  galactosidase positive cells in 15 HPFs were counted in each group and expressed as % senescent cells per total cells. (g, h and i) Serum starved rat aortic ECs pretreated with AT1R antagonist, Olmesartan (Olm, 10  $\mu$ M) for 30 min were incubated with 100 nM AngII (AII) for 48 hours. ECs were then incubated with THP-1 cells for 30 min, washed and adherent THP-1 cells were quantified. Attached THP-1 cells in 20 HPFs were counted in each group and expressed as cells per HPF. The bars in the graphs show the mean  $\pm$  SEM. \*\* indicates  $p < 0.01$ . \*\*\* indicates  $p < 0.001$ . \*\*\*\* indicates  $p < 0.0001$ .

## Supplemental Table S1

### Key Reagents

<i>Name</i>	<i>Source</i>	<i>Catalog #</i>
ABT737	Cayman	11501
Ad-mito-dsRed2	SignaGen Lab	SL100744
angiotensin II	Sigma	A9525
Hoechst 33342	Invitrogen	H3570
mdivi1	Med Chem Exp	HY-15886
Olmesartan/RNH6270	Sankyo	
X-Gal stain	GoldBio	X4281L
4-phenylbutyrate	Scandinavian Formulas	