

Supplemental table 1.

Table S1. Western Blot Details

Antibody	Manufacture	Catalog nr.	Sample heating	Protein loading amount	Gel type	Electrophoresis run time	Predicted molecular weight	Blotting time	Blocking agent	Antibody concentration	Secondary antibody	Secondary antibody concentration
CAT	abcam	ab1877	96 °	5 µg	10%	90 min	59 kD	120min	5% Milk	1:5000	Rabbit	1:5.000
COX-1	abcam	ab53766	96 °	12 µg	10%	80 min	69 kD	90min	3% BSA	1:500	Rabbit	1:5.000
COX-2	abcam	ab52237	96 °	12 µg	10%	80 min	69 kD	90min	2% Milk	1:500	Rabbit	1:5.000
Endothelin receptor A	Nordicbiosite	D424	96 °	12 µg	10%	90 min	50 kD	90min	2% Milk	1:3000	Rabbit	1:5.000
Endothelin receptor B	Santa Cruz	sc-21197	NH	20 µg	10%	90 min	50 kD	90min	5% Milk	1:200	Goat	1:5.000
Endothelin-1	abcam	ab88093	96 °	12 µg	16.5%	150 min	24 kD	90min	3% BSA	1:1000	Mouse	1:5.000
eNOS	BD Transduction	612665	96 °	16 µg	10%	90 min	140 kD	120min	2% Milk	1:200	Mouse	1:5.000
eNOS P-Ser ¹¹⁷⁷	Calbiochem	574597	NH	20 µg	10%	90 min	140 kD	120min	3% BSA	1:50	Mouse	1:5.000
GAPDH	abcam	ab22604	-	-	-	-	36 kD	90min	5% Milk	1:16.000	Mouse	1:5.000
GPX1	abcam	ab22604	96 °	16 µg	16.5%	120 min	22 kD	120min	5% Milk	1:1000	Rabbit	1:5.000
NADPH oxidase ^{p67}	BD Transduction	610912	NH	16 µg	10%	90 min	67 kD	90min	3% BSA	1:500	Mouse	1:5.000
nNOS	BD Transduction	610309	NH	10 µg	10%	90 min	155 kD	120min	5% Milk	1:10 000	Mouse	1:5.000
PGI ₂ synthase	Santa Cruz	sc-20933	NH	10 µg	10%	90 min	52 kD	90min	2% Milk	1:200	Rabbit	1:5.000
SOD1	Calbiochem	574597	NH	1 µg	16.5%	120 min	18 kD	120min	3% BSA	1:1000	Sheep	1:5.000
SOD2	Calbiochem	AB10346	96 °	1 µg	16.5%	120 min	25 kD	120min	2% Milk	1:5000	Rabbit	1:10.000
TBX	abcam	ab39362	96 °	10 µg	16.5%	90 min	54 kD	120min	5% Milk	1:250	Rabbit	1:5.000

Supplemental table 2.

Table S2. Performance Test

	Placebo n = 13		Resveratrol n = 14	
	<i>Pre</i>	<i>Post</i>	<i>Pre</i>	<i>Post</i>
Step test (est. ml O ₂ min ⁻¹ kg ⁻¹)	28.3 ± 0.9	31.9 ± 1.6*	29.3 ± 1.0	36.0 ± 1.2*#
Chair stand (Count per 30s)	15.7 ± 0.9	22.7 ± 1.5*	17.9 ± 1.0	24.4 ± 1.4*
Up & Go (s)	3.6 ± 0.1	3.1 ± 0.1*	3.5 ± 0.1	3.3 ± 0.1
Balance open (s)	35.3 ± 3.7	38.4 ± 3.2	34.5 ± 3.9	38.8 ± 3.7
Balance closed (s)	7.2 ± 1.5	6.9 ± 0.9	8.2 ± 2.8	8.2 ± 1.8
5k-walk (min)	54 ± 2	49 ± 2*	56 ± 2	49 ± 3*

Data are presented as mean ± SEM. * denotes significantly different from pre, # denotes significantly different from placebo (P < 0.05).