

Supplementary Table 1. Exclusions

	Vehicle	Single dose	Multiple doses
Initial enrollment of mice for MI studies	112		
Death after MI (all deaths were within 48 h)	21		
Excluded because EF >35%	13		
Mice assigned to group	26	26	26
Death after 1st infusion	2	2	3
Death after 2nd infusion	0	0	2
Death after 3rd infusion	2	0	1
Total mice included in final analysis	22	24	20

EF, ejection fraction; MI, myocardial infarction.

Supplementary Table 2

A. Rectal Temperature and Heart Rate on the Day of Coronary Occlusion

	Pre-Occlusion	Occlusion			Reperfusion		
		10 min	30 min	60 min	1 min	5 min	10 min
<u>Temperature (°C)</u>							
Vehicle	37.1 ± 0.0	37.0 ± 0.1	37.1 ± 0.0	37.2 ± 0.0	37.1 ± 0.0	37.1 ± 0.0	37.1 ± 0.1
Single dose	37.1 ± 0.0	37.1 ± 0.1	37.1 ± 0.0	37.1 ± 0.0	37.1 ± 0.0	37.1 ± 0.0	37.1 ± 0.1
Multiple doses	37.1 ± 0.0	37.1 ± 0.0	37.1 ± 0.0	37.1 ± 0.1	37.1 ± 0.0	37.1 ± 0.1	37.1 ± 0.0
<u>Heart rate (beats/min)</u>							
Vehicle	465 ± 9	447 ± 7	463 ± 10	492 ± 12	503 ± 10	525 ± 14	536 ± 14
Single dose	457 ± 8	450 ± 10	460 ± 11	480 ± 15	503 ± 15	510 ± 14	511 ± 15
Multiple doses	458 ± 8	447 ± 7	467 ± 11	498 ± 12	504 ± 8	515 ± 9	513 ± 14

A. Measurements of rectal temperature and heart rate were taken before the 60-min coronary occlusion (pre-occlusion), at 10, 30 and 60 min into the 60-min occlusion, and at 1, 5 and 10 min after reperfusion. Rectal temperature was continuously monitored and carefully controlled throughout the experiment, as detailed in the text. Data are means ± SEM.

B. Rectal Temperature and Heart Rate on the Days of the Echocardiogram

	Pre-Rx 1 (BSL)	Pre-Rx 2	Pre-Rx 3	Final Echo
<u>Temperature (°C)</u>				
Vehicle	37.4 ± 0.1	37.7 ± 0.1	37.7 ± 0.1	37.6 ± 0.1
Single dose	37.4 ± 0.1	37.8 ± 0.2	37.7 ± 0.1	37.5 ± 0.1
Multiple doses	37.2 ± 0.1	37.6 ± 0.1	37.6 ± 0.1	37.8 ± 0.1
<u>Heart rate (beats/min)</u>				
Vehicle	519 ± 7	517 ± 10	548 ± 8	498 ± 9
Single dose	517 ± 9	528 ± 8	522 ± 8	494 ± 8
Multiple doses	506 ± 6	538 ± 12	549 ± 6	516 ± 10

B. Measurements of rectal temperature and heart rate were taken during the echocardiographic studies. First, second, and third Rx indicates first, second, and third treatment. Data are means ± SEM.

Supplementary Table 3

A. Body Weight on the Days of Coronary Occlusion and Echocardiograms

	Control (n=6)	Vehicle (n=22)	Single dose (n=24)	Multiple doses (n=20)
Body weight(g)				
Day of Occlusion		21.9 ± 0.2	22.0 ± 0.3	22.9 ± 0.3 [#]
Pre-Rx 1 (BSL)		25.4 ± 0.4	24.5 ± 0.4	25.8 ± 0.4
Pre-Rx 2		25.5 ± 0.3	25.0 ± 0.4	26.0 ± 0.4
Pre-Rx 3		25.7 ± 0.4	25.4 ± 0.3	25.2 ± 0.4
Final Echo/Sacrifice	24.8 ± 0.7	24.1 ± 0.5	24.8 ± 0.4	26.2 ± 0.3 [#]
Δ Body Weight(g)				
Final-Pre-Rx 1		-1.3 ± 0.7	0.3 ± 0.4	0.4 ± 0.3 [#]
Final-Pre-Rx 2		-1.3 ± 0.5	-0.1 ± 0.3 [#]	0.2 ± 0.3 [#]
Final-Pre-Rx 3		-1.6 ± 0.5	-0.6 ± 0.3	1.0 ± 0.3 ^{#*}

Measurements of body weight taken on the day of 60-minute coronary occlusion and on the day of each echocardiographic study. Echocardiograms were performed prior to the first treatment (3 months after 60-minute coronary occlusion), and 5 weeks after each treatment. Rx, treatment. [#] P<0.05 vs. Vehicle; * P<0.05 vs. Single dose. Data are means ± SEM.

B. Morphometric Measurements

	Normal control (n=6)	Vehicle (n=10)	Single dose (n=11)	Multiple doses (n=10)
LV Mass (mg)	105.1 ± 7.5 [#]	141.7 ± 8.3	117.1 ± 5.7 [#]	109.8 ± 3.1
LV Mass/Body Weight (mg/g)	4.3 ± 0.4 [#]	5.8 ± 0.3	4.9 ± 0.3	4.2 ± 0.1 [#]
LV Mass/Tibia Length (mg/mm)	5.7 ± 0.4 [#]	8.0 ± 0.4	6.4 ± 0.3 [#]	6.0 ± 0.2 [#]
Lung weight/Body Weight (mg/g)	6.7 ± 0.1	7.1 ± 0.2	7.4 ± 0.3	6.6 ± 0.2
Lung weight/Tibia Length (mg/mm)	9.1 ± 0.3	9.6 ± 0.2	9.7 ± 0.4	9.5 ± 0.2

LV mass, body weight, tibia length, and lung weight. [#] P<0.05 vs. Vehicle. Data are means ± SEM.

C. Temperature and Heart Rate on the Day of the Hemodynamics Study

	Temperature (°C)	Heart rate (beats/min)
Vehicle	37.1 ± 0.1	461 ± 10
Single dose	37.0 ± 0.2	439 ± 8
Multiple doses	37.1 ± 0.1	467 ± 12

Measurements of rectal temperature and heart rate were taken 30 min after LV catheterization during hemodynamics studies. Data are means ± SEM.