

1 **Supplemental table**

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3 **Table S1. CMR sequence parameters**

	Cine	T2 mapping	LGE
Echo time (msec)	1.5	1.56	1.24
Repetition time (msec)	43.03	243.49	456
Flip angle (deg)	46	12	55
Slice thickness (mm)	4	4.5	6
Number of slices	6–10	6–10	6–9
Matrix (pixels)	144×144	124×124	262×262
Field of view (mm ²)	260×260	149×149	340×234
In-plane resolution	1.81×1.81	1.16×1.16	1.16×1.16

4 CMR: Cardiac magnetic resonance, LGE: Late gadolinium enhancement.

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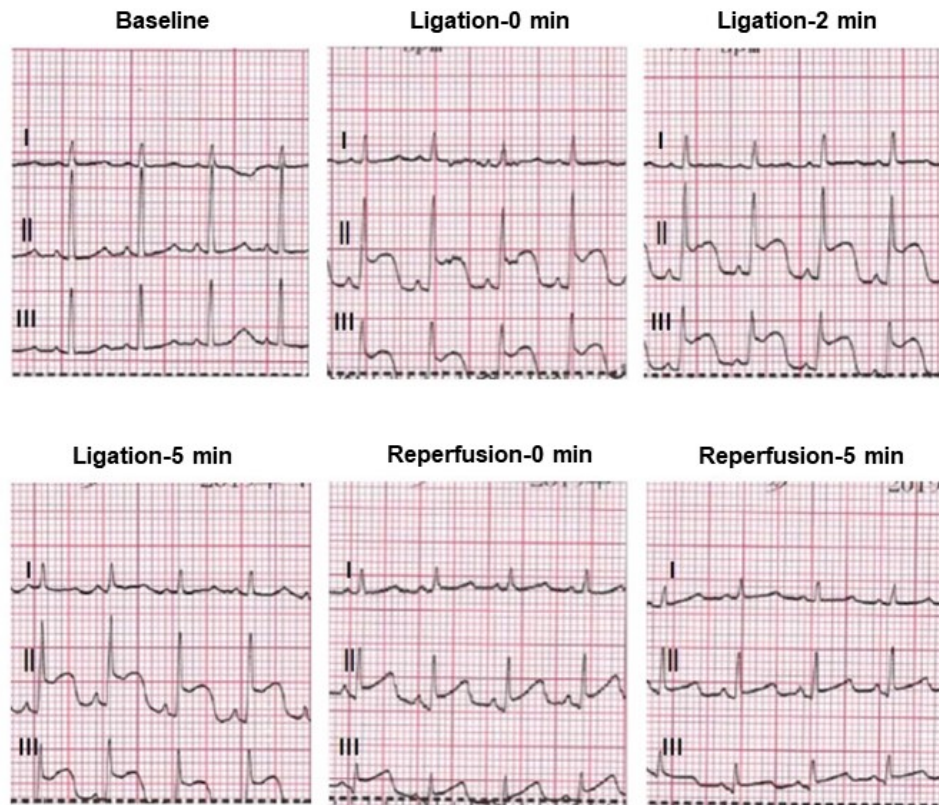
1 **Table S2. Average heart rate and duration of arrhythmia per day (%)**

Days (p.i)	Vehicle group (n = 3)		hiPSC-CM group (n = 3)	
	Heart rate (bpm)	Duration of arrhythmia per day (%)	Heart rate (bpm)	Duration of arrhythmia per day (%)
-2	132	0	126	0
0	158	0	146	0
3	152	0	152	14.20
7	137	0	131	14.40
10	153	0	128	0
14	159	0.20	161	0
17	123	0	125	0
21	135	0	126	0
24	131	0	149	0
28	124	0	137	0

1 **Supplemental figure and legend**

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3 **Figure S1**



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6 **Figure S1. Representative electrocardiogram (ECG) for Non-Human**

7 **Primate (NHP) during ischemia-reperfusion injury.** Representative traces

8 from NHP ECG recordings show ST-segment elevation on leads II and III,

9 confirming the establishment of myocardial ischemia after left anterior

10 descending (LAD) coronary artery ligation and a gradual return to baseline

11 after reperfusion.

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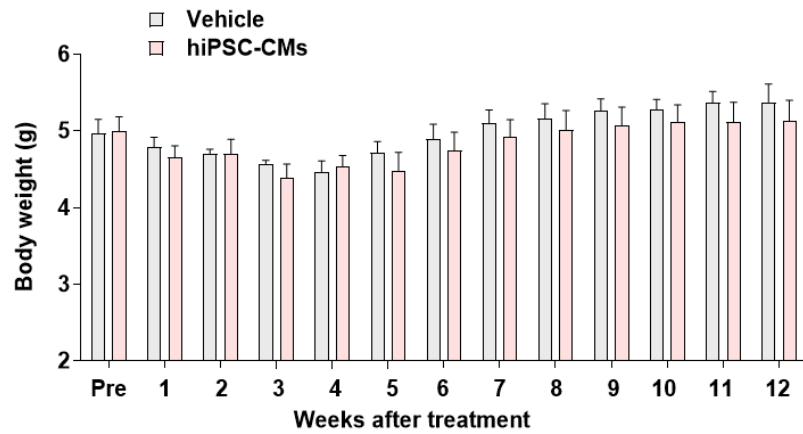
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1 **Figure S2**

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5 **Figure S2. Changes in the body weight of monkeys after MI and**
6 **treatment.**

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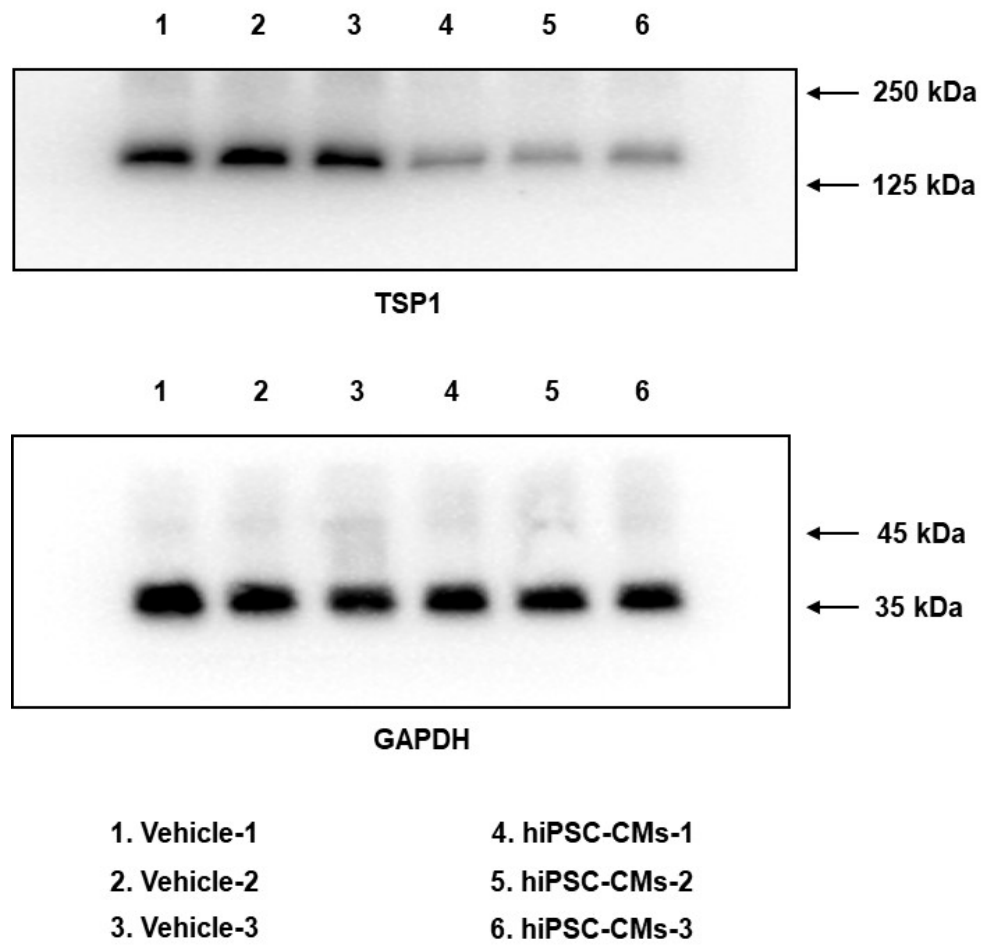
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1 **Figure S3**

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6 **Figure S3. The unedited images of western blot in Figure 3E.**