

SUPPLEMENT

Veselova O.M., Serebryakova L.I., Studneva I.M., Azmuko A.A., Avdeev A.V., Sidorova M.V., Pisarenko O.I. (2025) The preconditioning effect of a structural analogue of apelin-12 in a rat model of acute myocardial infarction. Biomeditsinskaya Khimiya, 71(5), 342-350.

DOI: 10.18097/PBMCR1622

Table S1. The effect of different methylin administration regimens on limiting myocardial infarction size in rats.

Group	AAR/LV, %	MI/AAR, %
Control (I/R)	43,0 $\pm$ 1,5	43,8 $\pm$ 1,2
iv bolus administration 30 minutes before regional ischemia		
Metilin, 0.5 mg/kg	38.2 $\pm$ 1,7	42,6 $\pm$ 2,3 NS
Metilin, 1.0 mg/kg	40,5 $\pm$ 2,2	37.6 $\pm$ 2.3*
Metilin, 5.0 mg/kg	43,1 $\pm$ 2,2	29.3 $\pm$ 2.6*** #
iv infusion for 30 minutes prior to regional ischemia		
Metilin, 0.5 mg/kg	41.4 $\pm$ 0.9	38.6 $\pm$ 3.5 NS
Metilin, 1.0 mg/kg	39.4 $\pm$ 3.3	35.4 $\pm$ 3.1*
Metilin, 5.0 mg/kg	39.6 $\pm$ 1.2	30.5 $\pm$ 2.6**

Data are presented as M $\pm$ m for n=5. I/R – 40-min occlusion of the left descending coronary artery and 60-min reperfusion. NS – no difference from control. Significantly different: from control * p<0.05; ** p<0.01, *** p<0.001; from metilin 5 mg/kg # p<0.05.

Table S2. Effect of 5-hydroxydecanoate administration on myocardial infarct size and creatine kinase-MB activity in rat plasma at the end of reperfusion.

Group	AAR/LV, %	MI/AAR, %	CK-MB, IU/ml plasms
Control (I/R)	43.0 $\pm$ 1.5	43.8 $\pm$ 1.2	1986.3 $\pm$ 193.7
5-HD, 1.0 mg/kg	41.2 $\pm$ 2.1	40.6 $\pm$ 2.2	1886.4 $\pm$ 83.3
5-HD, 5.0 mg/kg	39.6 $\pm$ 1.8	41.0 $\pm$ 2.3	2304.7 $\pm$ 103.6

Data are presented as M $\pm$ m for n=5. 5-Hydroxydecanoate (5-HD) was administered as a bolus at a dose of 1.0 or 5.0 mg/kg 40 min before ischemia.