

[本期目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)[\[打印本页\]](#) [\[关闭\]](#)**论文****前胡丙素与硝苯啶对大鼠工作心脏缺血再灌注损伤的保护作用**

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摘要:

大鼠ip前胡丙素(Pra-C 15 mg/kg, bid×3d)和硝苯啶(Nif 60μg/kg, bid×3d),使离体缺血再灌注工作心脏的收缩(AP, LVSP, +dP/dt_{max})舒张(-dP/dt_{max}, LVEDP和T值)性能在35min时得到改善,尤以舒张性能改善明显,并能促进CO, CF, SV及HR恢复,改善心脏工作效率,减少CK释放和心肌线粒体钙含量,表明Pra-C和Nif对心肌缺血都有保护作用,Pra-C的效应与Nif相近。

关键词: 前胡丙素 硝苯啶 离体心脏 血流动力学 线粒体

PROTECTIVE EFFECTS OF PRAERUPTORIN C AND NIFEDIPIINE ON ISCHEMIA-REPERFUSED INJURY IN WORKING RAT HEARTS

JR Yang; QP Li; MR Rao

Abstract:

The effects of praeruptorin C (Pra-C, 15 mg/kg, bid×3d, ip) on global myocardial ischemia and reperfusion were investigated in the isolated working rat hearts. The results at 35min after reperfusion showed that as compared with the values before ischemia, AP, LVSP, +dP/dt_{max}, -dP/dt_{max}, LVEDP and T were recovered up to 80±19%, 82±16%, 78±21%, 85±11%, 136±77% and 133±21%, respectively. The corresponding parameters of Nifedipine (Nif, 60 μg/kg, bid×3 d, ip) were 80±16%, 97±30%, 102±24%, 106±32%, 129±41% and 145±46%, respectively. The CF, SV and HR were recovered by 81±11%, 104±20% and 78±7% when using Pra-C and 86±11%, 106±25% and 82±11%, respectively, when using Nif. Additionally, in comparison of Pra-C and Nif with the ischemia group, the levels of creatine kinase released from cardiac cells decreased by 30% and 40%; while calcium accumulation in myocardial mitochondria were 41% and 46%, respectively. The study suggests that the protective effects of Pra-C on myocardial cells in the isolated working rat heart during myocardial ischemia are similar to those of Nif.

Keywords: Nifedipine Isolated working heart Hemodynamics Mitochondria Praeruptorin C

收稿日期 1992-02-09 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

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2. 饶曼人;陈丹.前胡丙素对高血压大鼠血压及犬血管阻力的影响[J].药学学报, 2001, 36(11): 803-806
3. 饶曼人;刘宛斌;张晓文.前胡丙素对Ang II致离体血管平滑肌细胞肥厚及胞内钙、NO含量和信号转导的影响[J].药学学报, 2002, 37(1): 5-5
4. 吴献礼;孔令义;闵知大.白花前胡丙素的结构修饰研究[J].药学学报, 2002, 37(7): 527-534
5. 孔令义;吴献礼;闵知大.白花前胡丙素C-3'和C-4'反式结构类似物的半合成白花前胡丙素C-3'和C-4'反式结构类

似物的半合成[J]. 药学学报, 2003,38(5): 358-363

6. 孙兰;饶曼人;刘培庆.前胡丙素对肾性高血压左室肥厚大鼠心功能、左室顺应性及心肌胶原含量的影响[J]. 药学学报, 1997,32(8): 578-582

7. 吴欣;石成璋;吴晓冬.前胡丙素对培养大鼠心肌细胞内游离Ca²⁺的影响[J]. 药学学报, 1993,28(10): 728-731

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