



木犀草素对缺血再灌损伤神经元的保护作用及机制研究

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中文摘要:目的: 探讨黄酮类化合物木犀草素对缺血/再灌损伤神经元的作用以及可能的作用机制。 方法:原代培养的海马神经元

中文关键词:木犀草素 缺血 神经元 钠泵

$Protective\ effects\ of\ luteolin\ on\ neurons\ against\ oxygen-glucose\ deprivation/reperfusion\ injury\ via$ improving Na+/K+-ATPase activity

Abstract/Objective: Luteolin, a flavone, has considerable neuroprotective effects by its anti-oxidative mechanism. However, it is still unclear whether luteolin can protect neurons against oxygen-glucose deprivation/reperfusion (OGD/R) induced injury. Method: After 2 hours oxygen-glucose deprivation and 24 hours reperfusion treatment in primary cultured hippocampal neurons, the neuron viability, survival rate and apoptosis rate were evaluated by MTT assay, lactate dehydrogenase (LDH) leakage assay and hooches tataining, respectively. The activity of Na*/K*-ATPase was examined in cultured neurons or in the hippocampus of SD rats treated by 10 minutes global cerebral ischemia and followed 24 hours reperfusion. Result: Treatment by OGD/R markedly reduced neuronal viability, increased LDH leakage rate and increased apoptosis rate. Application of luteoin (1-010) unnl = 1*/2) during OGD inhibited OGD/R induced neuron injury and apoptosis in a dose-dependent manner. Compared to the control group or OGP/R-treated neurons, the activity of Na*/K*-ATPase was significantly suppressed in global ischemia/reperfusion group or OGD/R-treated neurons. Application of luteolin during ischemia or OGD preserved the Na*/K*-ATPase exactivity. Furthermore, inhibition of Na*/K*-ATPase with ouabain attenuated the protective effect afforded by luteolin. Conclusion: The data provide the evidence that luteolin has neuroprotective effect against OGD/R induced nityra of the protective affect of the data provide the vidence that luteolin has neuroprotective effect against OGD/R induced nityra with the protective effect against OGD/R induced nityra with protective of the contractivity after OGD/R. induced injury and the protective effect may be associated with its ability to improve Na+/K+-ATPase activity after OGD/R.

keywords: <u>luteolin</u> <u>ischemia</u> <u>neuron</u> <u>Na±/K±-ATPase</u>

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