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TMB-8抑制5-HT和KCI引起大鼠脑血流量减少

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摘要:

目的研究TMB-8对5-HT和KCI引起的大鼠脑血流量(CBF)减少的作用。方法用激光多普勒血流仪测量大鼠CBF,在人 工脑脊液灌流液中加入TMB-8和工具药进行干预。结果12.5, 25和50 μ mol·L⁻¹ TMB-8对大鼠CBF无明显影 响,TMB-8可抑制5-HT引起的大鼠CBF减少。在1 μ mol·L⁻¹5-HT引起大鼠CBF持续下降的状态下,TMB-8可浓度依 赖的增加大鼠CBF。TMB-8也可抑制KCI引起的大鼠CBF减少。在20 mmol·L⁻¹ KCI引起大鼠CBF持续下降的状态 下,TMB-8可浓度依赖的增加大鼠CBF。结论TMB-8可抑制5-HT和KCI引起的大鼠CBF减少,也可浓度依赖的增加被 5-HT和KCI所减少的大鼠CBF,改善大鼠缺血区脑血供。

关键词: 8-(N,N-二乙胺)-n-辛基-3,4,5-三甲氧基苯甲酸酯 脑血流量 脑缺血 5-羟色胺 氯化钾

8-(N,N-diethylamino)-n-octyl-3,4,5-trimethoxybenzoate inhibited the reduction of cerebral blood flow evoked by 5-HT and KCI in rats

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Abstract:

AimTo investigate the impact of 8-(N,N-diethylamino)-n-octyl-3,4,5-trimethoxybenzoate(TMB-8) on the change of cerebral blood flow(CBF) induced by 5-HT or KCl in rats. Methods The CBF in rats was measured by a Laser-Doppler flowmeter. The cranial window field was superfused with artificial cerebral 🕨王斌 spinal fluid containing TMB-8, 5-HT or KCI. Results12.5, 25 and 50 µmol·L⁻¹ TMB-8 showed no significant 》 张爱霞 effect on rest CBF in rats. 12.5, 25 and 50 µmol·L⁻¹ TMB-8 apparently inhibited the decline of CBF evoked by 1 or 2 μ mol L⁻¹ 5-HT. When persistent reduction of CBF were evoked by 1 μ mol L⁻¹ 5-HT, TMB-8 markedly increased the CBF in a concentration-dependent manner. The reduction of CBF induced by 20 or 40 mmol L^{-1} KCl was also suppressed by 12.5, 25 and 50 μ mol L^{-1} TMB-8. While persistent reduction of CBF was evoked by 20 mmol·L⁻¹ KCI. TMB-8 markedly increased the CBF in a concentration-dependent manner.ConclusionThese results indicate that TMB-8 is effective in preventing and treating the reduction of CBF induced by 5-HT or KCI, and improved the supply of blood in rat brain during ischemia.

Keywords: cerebral blood flow ischemia 5-HT KCI 8-(N,N-diethylamino)-n-octyl-3,4,5trimethoxybenzoate

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