



三七总皂苷对快速老化SAMP8小鼠大脑 α -分泌酶 mRNA 表达的影响

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中文摘要:目的:研究三七总皂苷(PNS)对快速老化SAMP8小鼠大脑 α -分泌酶mRNA表达的影响。方法:采用快速老化痴呆模型小鼠SAMP8,将其随机分为对照组、PNS高、低剂量组(200,100 mg·kg⁻¹)和石杉碱甲组(0.3 mg·kg⁻¹),每组8只,对照组给予相同容积的双蒸水灌胃。每天灌胃1次,连续给药2个月。通过实时荧光定量PCR法检测各组SAMP8小鼠大脑 α -分泌酶(ADAM9,ADAM10,ADAM17)mRNA的含量。结果:对照组ADAM9 mRNA含量均低于PNS高剂量组和石杉碱甲组($P<0.05$);低剂量组ADAM10 mRNA的含量低于对照组($P<0.05$);PNS高、低剂量组和石杉碱甲组ADAM17 mRNA与对照组比较无显著差异。结论:PNS可以上调SAMP8小鼠脑内ADAM9 mRNA和下调ADAM10 mRNA的表达。

中文关键词:三七总皂苷 SAMP8 α -分泌酶

Effect of *Panax notoginseng* saponins on expression of α -secretase mRNA in brains of senescence-accelerated SAMP8 mice

Abstract: Objective: To study the effect of *Panax notoginseng* saponins (PNS) on expression of α -secretase mRNA in the brains of senescence-accelerated SAMP8 mice. **Method:** SAMP8 mice were randomly divided into the control group, the PNS high-dosage group (200 mg·kg⁻¹), the PNS low-dosage group (100 mg·kg⁻¹) and the huperzine A group (0.3 mg·kg⁻¹), with eight mice in each group. The control group and each administration group were orally administered with the same volume of double distilled water once for consecutively two months. The expression of α -secretase (ADAM 9, ADAM10, ADAM17) mRNA was assayed by real-time fluorescence quantitative polymerase chain reaction (Real-time PCR). **Result:** The expression of ADAM9 mRNA in PNS high-dosage group and huperzine A group were significantly higher than that of the control group ($P<0.05$). The expression of ADAM10 in the PNS high-dosage group, the PNS low-dosage group and the huperzine A group showed no significant difference from the control group. **Conclusion:** PNS can up-regulate expressions of ADAM9 mRNA and down-regulate expressions of ADAM10 mRNA in the brains of SAMP8 mice.

Keywords: *Panax notoginseng* saponins SAMP8 α -secretase

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