

论文

异丹叶大黄素与白藜芦醇对兔外周血中性粒细胞功能的影响

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摘要:

目的旨在研究异丹叶大黄素和白藜芦醇对中性粒细胞功能的影响。从兔外周血分离中性粒细胞,检测用炎性四肽(fMLPP)诱导中性粒细胞趋化及β-葡糖醛酸酶活性。结果显示:fMLPP诱导中性粒细胞趋化的最适浓度为5×10⁻¹⁰ mol·L⁻¹。在10⁻¹⁰~10⁻⁶ mol·L⁻¹的浓度范围内,fMLPP能剂量依赖性地促进中性粒细胞β-葡糖醛酸酶释放。异丹叶大黄素与白藜芦醇在一定浓度范围内均能抑制fMLPP诱导的中性粒细胞的趋化。提示二者均能增强中性粒细胞的功能,可能是他们抗炎作用的机制之一。

关键词: 异丹叶大黄素 白藜芦醇 葡萄糖醛酸酶 炎性四肽 中性粒细胞

EFFECTS OF ISORHAPOTIGENIN AND RESVERATROL ON FUNCTION OF PERIPHERAL BLOOD POLYMORPHONUCLEAR LEUKOCYTES FROM RABBITS

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Abstract:

In effects of isorhapatigenin and resveratrol on chemotaxis and release of β-glucuronidase from rabbit peripheral blood polymorphonuclear leukocytes stimulated with formylmethionyl-leucyl-phenyl-phenylalanine(fMLPP) were studied. The optimal concentration of fMLPP for the induction of chemotaxis of polymorphonuclear leukocytes was approximately at 5×10⁻¹⁰ mol·L⁻¹. fMLPP, at the concentration range of 10⁻¹⁰~10⁻⁶ mol·L⁻¹, dose-dependently increased the release of β-glucuronidase from polymorphonuclear leukocytes. Isorhapatigenin and resveratrol both inhibited the chemotaxis of polymorphonuclear leukocytes stimulated with fMLPP(5×10⁻¹⁰ mol·L⁻¹). Isorhapatigenin, at the concentration range of 10⁻⁵~10⁻⁴ mol·L⁻¹, dose dependently inhibited the release of β-glucuronidase from polymorphonuclear leukocytes stimulated with fMLPP(10⁻⁸ mol·L⁻¹). Resveratrol, at the concentrations of 1×10⁻⁵ and 3×10⁻⁵ mol·L⁻¹, was shown to dose dependently inhibit β-glucuronidase release from polymorphonuclear leukocytes stimulated with fMLPP(10⁻⁸ mol·L⁻¹).

Keywords: Resveratrol β-glucuronidase Leukocytes Formylmethionyl leucyl phenyl phenylalanine(fMLPP) Isorhapatigenin

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