

论文  
异丹叶大黄素对人滑膜细胞白细胞介素-8生成及mRNA表达的影响

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摘要:

目的研究异丹叶大黄素(isorhapotigenin, Iso)对肿瘤坏死因子 $\alpha$ (TNF- $\alpha$ )诱导的人滑膜细胞(humansynovialcell, HSC)白细胞介素-8(IL-8)生成和mRNA表达的影响. 方法用RIA方法测定IL-8的含量, 以RT-PCR法测IL-8mRNA. 结果Iso在 $1 \times 10^{-6}$ - $1 \times 10^{-5}$  mol·L<sup>-1</sup>浓度范围内对TNF- $\alpha$ 诱导的人滑膜细胞IL-8生成有抑制作用, 并抑制TNF- $\alpha$ 诱导的HSCIL-8mRNA表达. 结论Iso抑制TNF- $\alpha$ 诱导的HSCIL-8生成, 可能与影响IL-8mRNA表达有关.

关键词: 异丹叶大黄素 白细胞介素-8 放免测定法 反转录聚合酶链式反应

INHIBITORY EFFECTS OF ISORHAPOTIGENIN ON IL-8 PRODUCTION AND mRNA EXPRESSION INDUCED WITH TNF $\alpha$  IN NORMAL HUMAN SYNOVIAL CELLS

HOU Qi; LI Liang-cheng; GUO Ying; CHENG Gui-fang

Abstract:

AIM To study the effects of isorhapotigenin (Iso) on interleukin-8 (IL-8) production and mRNA expression in normal human synovial cells (HSC) induced with TNF $\alpha$ . METHODS IL-8 were assayed with RIA method. The mRNA expression of IL-8 was detected by RT-PCR method. RESULTS It was shown that TNF $\alpha$  at concentrations of 0.05 to 0.5 U·mL<sup>-1</sup> for 24 h significantly increased IL-8 production. The expression of IL-8 mRNA was also promoted by TNF $\alpha$  (0.5 U·mL<sup>-1</sup>) for 6 h. Iso at the concentrations of  $1 \times 10^{-6}$  mol·L<sup>-1</sup> to  $1 \times 10^{-5}$  mol·L<sup>-1</sup> showed inhibitory effects on IL-8 production induced with TNF $\alpha$  (0.25 U·mL<sup>-1</sup>). The further study indicated that Iso at the concentrations of  $1 \times 10^{-6}$  mol·L<sup>-1</sup> to  $1 \times 10^{-5}$  mol·L<sup>-1</sup> inhibited IL-8 mRNA expression in HSC induced with TNF $\alpha$  (0.25 U·mL<sup>-1</sup>). CONCLUSION TNF $\alpha$  promoted IL-8 production and mRNA expression in HSC. Iso inhibited IL-8 production and mRNA expression induced by TNF $\alpha$  (0.25 U·mL<sup>-1</sup>). This might be one of the anti inflammatory mechanisms of Iso.

Keywords: interleukin 8 interleukin-8 mRNA RIA RT-PCR isorhapotigenin

收稿日期 2000-09-17 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

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