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葛根素预处理对LPS诱导RAW264.7细胞活化的影响

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作者 中文 名	作者英文 名	单位中文名	单位英文名	E-Mail
胡建军	HU Jian-jun	温州医学院 附属第一医院 呼吸内科·浙江 温州 325000	Department of Respiratory, First Affiliated Hospital of Wenzhou Medical College, Wenzhou 325000, China	
张丹丹	ZHANG Dan-dan	温州医学院 附属第一医院 呼吸内科·浙江 温州 325000	Department of Respiratory, First Affiliated Hospital of Wenzhou Medical College, Wenzhou 325000, China	
陈俊杰		温州医学院 附属第一医院 呼吸内科·浙江 温州 325000	Department of Respiratory, First Affiliated Hospital of Wenzhou Medical College, Wenzhou 325000, China	
陈成水	CHEN Cheng-shui	温州医学院 附属第一医院 呼吸内科·浙江 温州 325000	Department of Respiratory, First Affiliated Hospital of Wenzhou Medical College, Wenzhou 325000, China	chenchengshui@gmail.com
李玉苹	LI Yu-ping	温州医学院 附属第一医院 呼吸内科·浙江 温州 325000	Department of Respiratory, First Affiliated Hospital of Wenzhou Medical College, Wenzhou 325000, China	

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中文摘要:目的:观察葛根素预处理对脂多糖(LPS)诱导小鼠巨噬细胞RAW264.7活化和分泌细胞因子的影响.探讨其抗炎机制。 方法:取对最期生长良好价 RAW264.7细胞.超机分为空白对照组、LPS组、葛根素预处理+LPS组。CCK-%法检测嘉根素对RAW2 64.7的细胞离性作用.Giemsu实色法观察细胞形态学变化-葡萄免疫吸附试验[CLISA)检测细胞上清中肿瘤坏死因子叶形-0。 巨噬细胞炎性蛋白: 2(MIP-2)的变化尖时实充定能PCR(qRT-PCR)动态测定NF-xB pS mRNA的表达。 新果:当葛根素的浓度为100.2 00,400 μmol • L $^{-1}$ 时,与 1 mg • L $^{-1}$ LPS共培养均未显示出细胞毒性作用(P<0.05);与空白对照组相比,LPS组可明显改变RAW264.7 细

Effect of pretreatment with puerarin on activation of LPS-induced RAW264.7 cells

Abstract:Objective: To observe the effect of pretreatment with puerarin on activation of LPS -induced RAW264.7 cells and secretory cytokines, and discuss its anti-inflammatory mechanism. Method: Well-grown RAW264.7 cells in the exponential phase were collected and anothonly divided them into the blank control group, the LPS group and the puerarin pretreatment+LPS group. The cellular toxic effect of puerarin on RAW264.7 cells was examined by CCK-8 assay, cell morphology was detected by Giernas stain method, the changes in TNF-a and MIP-2 were tested by ELISA, and the expression of NF-8 pc5 mRNA were determined by qRT-PCR. Result: When puerarin was cultured with In mg - t-1 LPS at a concentration of lower than 400 jumb - 1-t-1 is that on showed the cellular toxic effect (PC-005). Compared with the control group, the LPS group could significantly change the morphology of RAW264.7 cells (increase in cell body, Compared with the control group, the LPS group could significantly change the morphology of RAV 26-1, cells (increase in cell body, irregular shape, with a large number of pseudopodia extending). After intervention, the percarin 100 µmol · L⁻¹ group could significantly inhibit LPS-induced cell morphological changes, while the puerarin 200 µmol · L⁻¹ and 400 µmol · L⁻¹ puerarin groups showed more notable inhibitory effects. However, there was no obvious difference between the two groups. The pretreatment with puerarin could inhibit the expression of TNF-a and MIP2 - in cell supernatural and NF-AB p65 mRNA in cells (P-c.05). With increase in the puerarin concentration, its inhibitory effect gradually grew (P-c.05), but did not reach the level of the blank control group. Conclusion: As a safe and effective natural anti-inflammatory drug, puerarin can significantly reduce the expression of inflammatory cytokines (TNF-a, MIP-2). Its mechanism may be related to the reduction of NF-xB p65 mRNA expression.

 $\textbf{keywords:} \underline{puerarin} \hspace{0.2cm} \underline{RAW264.7 \hspace{0.1cm} cell} \hspace{0.2cm} \underline{lipopolysacchride} \hspace{0.1cm} \underline{(LPS)} \hspace{0.2cm} \underline{NF-\kappa B}$

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