

论著

对脂多糖攻击小鼠血及肝IL-6和TNF- α 含量的影响

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摘要 目的: 研究重组人白细胞介素-10 (rhIL-10) 对脂多糖 (LPS) 诱导的血、肝IL-6和TNF- α 炎症介质含量变化的影响。方法: 小鼠腹腔注射LPS建立炎症模型, 并同时静脉注射不同剂量的rhIL-10, ELISA法测定12 h、24 h、48 h和72 h肝组织和血清IL-6和TNF- α 的含量。结果: 注射rhIL-10后12 h, 肝组织和血清IL-6、TNF- α 水平开始下调, 24-48 h抑制作用最明显 ($P < 0.05$), 72 h后抑制作用减弱, 且呈剂量效应关系。结论: 利用基因工程技术制备的重组人白细胞介素10 (rhIL-10) 显著下调肝组织和血清IL-6和TNF- α 的水平。

关键词 [白细胞介素10](#); [白细胞介素6](#); [肿瘤坏死因子](#)

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Effect of rhIL-10 on IL-6 and TNF- α levels in serum and liver of lipopolysaccharide-challenged mice

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Abstract

AIM: To investigate the effect of recombinant human interleukin-10 (rhIL-10) on IL-6 and TNF- α levels in serum and liver of mice exposed to lipopolysaccharide (LPS). METHODS: rhIL-10 was prepared by using genetic engineering technology. Mice were intraperitoneally with 500 μ g of LPS, and then were treated intravenously with various dosages of rhIL-10. The levels of IL-6 and TNF- α in hepatic tissue and serum were determined by ELISA at 12 h, 24 h, 48 h and 72 h post rhIL-10 treatment. RESULTS: rhIL-10 markedly inhibited the increase in IL-6 and TNF- α levels in hepatic tissue and serum at 12 h after rhIL-10 treatment in LPS-challenged mice, and the inhibition effect was significant at 24-48 h after rhIL-10 treatment ($P < 0.05$). CONCLUSION: rhIL-10 can inhibit the increase in IL-6 and TNF- α levels induced by LPS in mice.

Key words [Interleukin-10](#) [Interleukin-6](#) [Tumor necrosis factor](#)

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