

论文 人参皂苷Rg₁及其肠内菌代谢产物Rh₁对小鼠免疫细胞功能的影响

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摘要:

目的初探人参皂苷Rg₁及其肠内菌代谢产物Rh₁对正常小鼠免疫功能的影响。方法用Rh₁与Rg₁分别处理脾T细胞、B细胞及腹腔巨噬细胞(Mφ); MTT比色法测T和B细胞增殖能力; 中性红比色法测Mφ的吞噬功能; Griess法测Mφ释放NO的水平。结果Rh₁能促进脾细胞增殖、下调Con A诱导的T细胞增殖; Rh₁与Rg₁对LPS诱导的B细胞增殖均无明显作用; Rg₁和Rh₁能提高Mφ的吞噬能力和促进NO的释放。结论Rg₁及其代谢产物Rh₁可共同作用于T细胞和Mφ而产生免疫调节作用。

关键词: 人参皂苷Rh₁ 人参皂苷Rg₁ 免疫细胞

EFFECTS OF GINSENOSE Rg₁ AND ITS METABOLITE Rh₁ ON THE FUNCTION OF IMMUNOCYTE IN MICE

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Abstract:

AIMTo study the mechanism of action of ginsenoside Rg₁ and its metabolite Rh₁ on the function of immunocyte in normal mice. METHODSThe proliferation of splenocytes was determined by using MTT assay. Phagocytosis activity of peritoneal macrophages was determined by using neutral red phagocytosis assay. Griess agent was used to assay the NO-releasing level of peritoneal macrophages. RESULTSRh₁ was shown to promote proliferation of splenocytes directly, down-regulate the Con A-induced proliferation of T-lymphocytes. Rg₁ can not induce proliferation of splenocytes directly, while Rg₁ 100 μg·mL⁻¹ can inhibit ConA-induced proliferation of T-lymphocytes obviously. Both Rh₁ and Rg₁ showed no effect on LPS-induced proliferation of B-lymphocytes. Rg₁ and Rh₁ were found to significantly increase the phagocytosis and NO-releasing level of peritoneal macrophages, while the effect of Rh₁ is weaker than that of Rg₁. CONCLUSIONThe immuno-regulation effect of Rg₁ may be carried out by both Rg₁ and its metabolite Rh₁. Their functions on other immunocytes still need further study.

Keywords: ginsenoside Rg₁ immunocyte ginsenoside Rh₁

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