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## Effects of Ruscogenin Fucopyranoside on the Delayed Type Hypersensitivity and Inflammatory Reactions

Xu Qiang, Wang Rong, Yu Boyang<sup>1</sup>

Department of Pharmacology of Chinese Materia Medica; <sup>1</sup>Department of Pharmacognosy

A remarkable inhibition of picryl chloride(PC)-induced contact dermatitis(PC-DTH) was observed in mice by the ip injection of ruscogenin 1-*O*-[ $\beta$ -D-glucopyranosyl (1 $\rightarrow$ 2)][ $\beta$ -D-xylopyranosyl (1 $\rightarrow$ 3)]- $\beta$ -D-fucopyranoside (Rusco) either before or after the antigen challenge to elicit DTH. Rusco also markedly inhibited both inflammatory reactions induced by xylene and croton oil in the ear of mice. However, Rusco did not affect the body weight of mice, and at the higher dose the compound showed a tendency to inhibit thymus, but significantly increased the weights of spleen and adrenal, as compared with prednisolone which strongly decreased all the weights of body, thymus, spleen and adrenal of mice. These results suggest that Rusco possesses strong anti-inflammatory and immunopharmacological activities, and the suppression to delayed type hypersensitivity is displayed mainly through affecting the formation of effector T cells and the inflammatory reaction.

**Key words** Ruscogenin fucopyranoside; Delayed type hypersensitivity; Contact dermatitis; Anti-inflammatory action

【文摘 010】长效甾体避孕药 RP-HPLC 流动相选择性优化与定量分析. 谢大年, 葛建华, 蓝琪田等. 药学报, 1993;28(2):130

采用极角混合设计技术, 模拟溶质色谱保留行为的数学模型, 用预测优化流动相实验, 对溶质色谱保留行为的数学模型进行修正. 通过数次预测、迭代、修正数学模型, 提高模型的拟合精度, 采用多目标优化指标, 计算机辅助, 寻求三元流动相的最佳组成. 首次利用可编程序紫外检测器的时间程序检测功能, 提高微量组分的检测灵敏度, 成功地解决了两种长效避孕药制剂的定量分析.

【文摘 011】用模拟恒速吸收及消除分析苄普地尔对豚鼠离体左心房的抑制作用. 朱 远, 陈丁丁, 苏 玲等. 中国药理学报, 1993;14(2):161

苄普地尔 0~20  $\mu$ mol/L 和 20~0  $\mu$ mol/L 梯度灌流豚鼠离体左房, 以模拟固定  $K_a$  及  $K_e$  参数, 研究药效动力学特征. 以  $C_p$ - $E$  作图, 苄普地尔的负性肌力作用呈逆时针滞后祥, 将  $C_p$ 、 $T$ 、 $E$  参数以 PK/PD 非参数模型拟合, 以  $C_e$ - $E$  作图, 滞后祥消失.  $Keo = 0.033 \pm 0.023 \text{ h}^{-1}$ , 测得的药效表现  $T_{1/2}$  比药效下降  $T_{1/2}$  长约 80 倍, 证明其长效与从药效室中缓慢消除有关.