

论文

飞蓬甙的全合成和对微循环障碍的初步观察

胡昌奇;程彰华;关玲

上海医科大学药学院; **上海医科大学药学院1986届毕业生。

摘要:

关键词: 飞蓬甙 3-羟基-4-吡喃酮 灯盏花 血小板聚集 微循环障碍

TOTAL SYNTHESIS OF ERIGEROSIDE AND PRELIMINARY OBSERVATION ON EXPERIMENTAL MICROCIRCULATORY DISTURBANCES

CQ Hu; ZH Cheng and L Guan

Abstract:

Erigeroside and 3-hydroxy-4-pyranone, water-soluble constituents of Erigeron breviscapus, were synthesized and their activities investigated. The primary pharmacological studies showed that erigeroside and 3-hydroxy-4-pyranone (dose 0.86 mg/ml PRP) inhibited significantly platelet aggregation induced by ADP in vitro. The inhibiting aggregatory rates(%) of erigeroside and 3-hydroxy-4-pyranone were 32.6% and 37.6% respectively. 3-Hydroxy-4-pyranone could accelerate the blood flow of arteriolar and venulae, relieving mesenteric microcirculatory disturbances induced by noradrenaline.

Keywords: 3-Hydroxy-4-pyranone Erigeron breviscapus Platelet aggregation Microcirculatory disturbance Erigeroside

收稿日期 1987-09-28 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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