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论文

一支箭中抗胃溃疡的倍半萜内酯苷

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摘要:

目的研究一支箭(Crepis napifera (Franch.) Babc.)根中抗胃溃疡的活性成分。方法采用柱色谱方法进行分离纯化, 得到2个化合物,用NMR,MS,UV,IR光谱技术和化学方法进行鉴定;测定化合物1对大鼠体内由阿司匹林导致胃损伤的 影响和对胃酸分泌的作用。结果分离得到2个倍半萜内酯苷类化合物,taraxinic acid-1'-O-B-D-qlucopyranoside (1)和11,13-dihydro-taraxinic acid-1'-O-β-D-glucopyranoside (2)。化合物1以80 mg·kg⁻¹的剂量ig给药,可以 有效地抑制鼠体内由于阿司匹林导致的胃损伤,并以 70 mg·kg^{-1} 的剂量iv不会影响鼠体胃内由组胺刺激产生的胃酸 分泌物。结论化合物1为保护胃粘膜,抗胃溃疡的活性成分。

关键词: 一支箭 倍半萜内酯苷 胃粘膜 胃溃疡 阿司匹林 组胺

ANTI-GASTRIC ULCER SESOUITERPENE LACTONE GLYCOSIDES FROM CREPIS **NAPIFERA**

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Abstract:

AIMThe anti-gastric ulcer constituents from the roots of Crepis napifera (Franch) Babc (Compositae) were studied. METHODSSolvent partition, Si gel and Rp-18 column chromatography, crystallization and spectral methods were used to extract, isolate and identify two compounds. The activity of compound 1 was tested on the mouse stomach by determining the effect on aspirin-induced gastric lesions and on histamine-stimulated gastric acid secretion. RESULTSTwo sesquiterpene lactone glycosides, taraxinic acid-1'-O- β -D-glucopyranoside (1) and 11,13-dihydro-taraxinic acid-1'-O- β -D-glucopyranoside (2) were obtained. Compound 1 at the dose of 80 mg·kg⁻¹ po inhibited significantly the development of aspirininduced gastric lesions in the rat and at an iv dose of 70 mg kg⁻¹ did not affect histamine-stimulated gastric acid secretion in the lumen-perfused rat stomach. CONCLUSIONCompound 1 is the active component of the plant which protects gastric mucosa and exhibits anti-gastric ulcer action.

Keywords: sesquiterpene lactone glycoside gastric mucosal gastric ulcer aspirin histamine Crepis Article by napifera

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