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复方双黄连粉针剂金银花中间体化学成分研究

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作者中文名	作者英文名	单位中文名	单位英文名	E-Mail
王楠	WANG Nan	天然药物及仿生药物国家重点实验室 北京大学药学院 天然药物学系,北京 100191	State Key Laboratory of Natural and Biomimetic Drugs, Department of Natural Medicines, School of Pharmaceutical Sciences, Peking University, Beijing 100191, China	
杨秀伟	YANG Xiuwei	天然药物及仿生药物国家重点实验室 北京大学药学院 天然药物学系,北京 100191	State Key Laboratory of Natural and Biomimetic Drugs, Department of Natural Medicines, School of Pharmaceutical Sciences, Peking University, Beijing 100191, China	xwyang@bjmu.edu.cn

中文摘要：目的: 对复方双黄连粉针剂中配剂金银花中间体的化学成分进行系统分离和鉴定,以寻找引起不良反应的物质基础。 方法 :采用柱色谱以及制备型HPLC等方法进行分离、纯化,运用^{1}H-和^{13}C-NMR,ESI-MS等谱学方法和技术对化合物结构进行鉴定。结果 :从配剂金银花中间体中分离并鉴定了20个化合物,分别为黄酮类化合物:槐属苷(1)、木犀草素-7-*O*-葡萄糖苷(2)、芦丁(3)、槲皮素(4);绿原酸类化合物:3,5-*O*-双咖啡酰基奎宁酸甲酯(5)、4,5-*O*-双咖啡酰基奎宁酸甲酯(6)、3,4-*O*-双咖啡酰基奎宁酸甲酯(7)、4,5-*O*-双咖啡酰基奎宁酸(8)、3,4-*O*-双咖啡酰基奎宁酸(9)、绿原酸(10);环烯醚萜苷类化合物:表断马钱子苷半缩醛内酯(11)、獐牙菜苷(12)、断马钱子苷半缩醛内酯(13)、断氧化马钱子苷(14);皂苷类化合物:灰毡毛忍冬皂苷甲(15)、灰毡毛忍冬皂苷乙(16)、忍冬苦苷A(17)、忍冬苦苷B(18)、忍冬苦苷C(19)、续断皂苷B(20)。 结论 :化合物 1 为首次从该属植物中发现, 1~20 均为首次从配剂金银花中间体中分离得到。

中文关键词：金银花 双黄连粉针剂 制剂中间体 化学成分

Chemical constitutents from pre-formulation of Lonicerae Japonicae Flos in Shuanghuanglian lyophilized powder for injection

Abstract: Objective : To research the chemical constitutents for the pre-formulation of Lonicerae Japonicae Flos(the dried buds of *Lonicera japonica*) in Shuanghuanglian lyophilized powder for injection and provide substance foundation for the adverse reaction of Shuanghuanglian lyophilized powder for injection. Method : The chemical constituents were isolated by column chromatography and preparative HPLC. All structures were characterized by the spectroscopic methods including ESI-MS, ^{1}H-NMR, ^{13}C-NMR, and compared with data in the literature. Result : Twenty compounds were isolated and identified as sophoraricoside(1), luteolin-7-*O*-*β*-*D*-glucopyranoside(2), rutin (3), quercetin(4), 3,5-*O*-dicaffeoyl quinic acid methyl ester(5), 4,5-*O*-dicaffeoyl quinic acid methyl ester(6), 3,4-*O*-dicaffeoyl quinic acid methyl ester(7), 4,5-dicaffeoyl quinic acid(8), 3,4-dicaffeoyl quinic acid(9), chlorogenic acid(10), epi-vogeloside(11), sweroside (12), vogeloside(13), secoxyloganin(14), macranthoidin A(15), macranthoidin B(16), loniceroside A(17), loniceroside B(18), loniceroside C(19), dipsacoside B(20). Conclusion : Compound 1 was identified in genus *Lonicera* for the first time and compounds 1-20 were isolated from the pre-formulation for the first time.

keywords:the dried buds of *Lonicera japonica* shuanghuanglian lyophilized powder for injection pre-formulation chemical constitutents

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