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论文

玄参的脂溶性化学成分

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摘要:

目的:研究中药玄参(Scrophularia ningpoensis Hemsl.)脂溶性部位的化学成分。方法:利用溶剂提取和硅胶等色谱方法对玄参乙醚可溶部位进行分离纯化,通过化学和光谱方法鉴定结构。结果:共分得10个化合物,分别鉴定为3-O-乙酰基-2-O-阿魏酰基-α-L-鼠李糖(I),3-O-乙酰基-2-O-对羟基肉桂酰基-α-L-鼠李糖(II),肉桂酸(III),4-羟基-3-甲氧基苯甲酸(IV),对甲氧基肉桂酸(V),4-羟基-3-甲氧基肉桂酸(VI),5-羟甲基糠醛(VII),熊果酸(VIII),β-谷甾醇(IX),β-谷甾醇葡糖苷(X)。结论:化合物I,II为新化合物。化合物IV,V,VII,VIII为首次从该植物中分得。玄参脂溶性部位含有较多的酚性化合物。

关键词: 玄参 3-O-乙酰基-2-O-阿魏酰基-a-L-鼠李糖 3-O-乙酰基-2-O-对羟基肉桂酰基-a-L-鼠李糖

LIPOSOLUBLE CONSTITUENTS FROM THE ROOTS OF SCROPHULARIA NINGPOENSIS

LIPOSOLUBLE CONSTITUENTS FROM THE ROOTS OF SCROPHULARIA NINGPOENSIS

Abstract:

AIM: To investigate the liposoluble constituents of the roots of *Scrophularia ninpoensis* Hemsl.METHODS: The constituens were obtained by solvent extraction and chromatography on silica gel etc.. Their structures were elucidated by chemical and spectroscopic methods (IR, EIMS, 1 HNMR, 13 CNMR, 1 H- 1 H COSY, HMQC, HMBC). RESULTS: Ten compounds were isolated. Among them, compound I and II are new and identified as 3-*O*-acetyl-2-*O*-(9-hydroxycinnamoyl)-a-*L*-rhamnose and 3-*O*-acetyl-2-*O*-(p-hydroxycinnamoyl)-a-*L*-rhamnose, respectively. The others were identified as known compounds: cinnamic acid (III), 4-hydroxy-3-methoxybenzoic acid (IV), p-methoxycinnamic acid (V), 4-hydroxy-3-methoxycinnamic acid (VI), 5-hydroxymethyl furfural (VII), ursolic acid (VIII), β -sitosterol(IX), β -sitosteryl glucoside (X). CONCLUSION: Compounds IV,V,VII and VIII were isolated from this plant for the first time. Most obtained constituens in ether soluble part of *S. ningpoensis* were phenolic derivatives.

Keywords: Scrophularia ningpoensis 3-O-acetyl-2-O-(3-methoxy-4-hydroxycinnamoyl)-a-L-rhamnose 3-O-acetyl-2-O-(p-hydroxycinnamoyl)-a-L-rhamnose scrophulariaceae

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- 3-*O*-乙酰基-2-*O*-对羟基肉桂 酰基-**a**-*L*-鼠李糖

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