

论文

南柴胡根中木脂素苷类化合物的研究

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摘要:

目的研究南柴胡根中的木脂素苷类化学成分。方法应用色谱方法分离化合物,利用化学方法和波谱方法鉴定所得化合物的化学结构。结果从南柴胡根中得到两个木脂素苷: 2,3-E-2,3-二氢-2-(3'-甲氧基-4'-O-β-D-葡糖基-苯基)-3-羟甲基-5-(3"-羟基-丙烯基)-7-甲氧基-1-苯骈-[b]-呋喃(1)和2,3-E-2,3-二氢-2-(3'-甲氧基-4'-羟基-苯基)-3-羟甲基-5-(3"-羟基-丙烯基)-7-O-β-D-吡喃葡糖基-1-苯骈-[b]-呋喃(2),二者均为(+)-2S,3R型和(-)-2R,3S型非对映异构体的混合物,且都以(+)-2S,3R型的量稍多。结论化合物1和2均为首次从柴胡属植物中分离得到,其中化合物2中的(+)-2S,3R-2,3-二氢-2-(3'-甲氧基-4'-羟基-苯基)-3-羟甲基-5-(3"-羟基-丙烯基)-7-O-β-D-吡喃葡糖基-1-苯骈-[b]-呋喃为新化合物。

关键词: 南柴胡 柴胡属 伞形科

Studies on lignan glycosides from the roots of *Bupleurum scorzonerifolium*

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Abstract:

AimTo study the lignan glycosides from the roots of *Bupleurum scorzonerifolium*.MethodsChromatography methods was used to isolate compounds and chemical and spectral methods were used to identify the structures of isolated compounds.ResultsTwo lignan glycosides were isolated from the roots of *B.scorzonerifolium* and their structures were identified as 2,3-E-2,3-dihydro-2-(3'-methoxy-4'-O-β-D-glucopyranosyl-phenyl)-3-hydroxymethyl-5-(3"-hydroxypropenyl)-7-methoxy-1-benzo [b] furan (1) and 2,3-E-2,3-dihydro-2-(3'-methoxy-4'-hydroxy-phenyl)-3-hydroxymethyl-5-(3"-hydroxypropenyl)-7-O-β-D-glucopyranosyl-1-benzo [b] furan (2), both of them which were the mixture of (+)2S,3R- and (-)2R,3S-type diastereoisomer and in both of them the amount of (+)2S,3R- type was a little more than that of the (-)2R,3S-type.ConclusionCompounds 1 and 2 were isolated from *B.scorzonerifolium* for the first time.(+)-2S,3R-2,3-Dihydro-2-(3'-methoxy-4'-hydroxy-phenyl)-3-hydroxymethyl-5-(3"-hydroxypropenyl)-7-O-β-D-glucopyranosyl-1-benzo [b] furan is a new compound.

Keywords: *Bupleurum umbelliferae* *Bupleurum scorzonerifolium*

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