

论文
西洋参茎叶总皂苷氧化裂解产物中的新侧链环合型达玛烷型三萜

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摘要:

为了研究西洋参茎叶总皂苷氧化碱解产物的组成, 对加拿大产西洋参茎叶总皂苷进行氧化碱解后, 其产物通过硅胶柱色谱、Sephadex LH-20柱色谱、重结晶等方法进行分离纯化得到2个化合物。根据化合物的理化性质和光谱数据, 鉴定其结构为: (12*R*,20*S*,24*R*)-20,24;12,24-diepoxy-24-deisopropyl-dammarane-3β-ol (1)和(20*S*,24*R*)-20,24-epoxydammarane-3β,12β,25-triol (2)。化合物1,2均为首次从西洋参茎叶总皂苷碱解产物中分离得到侧链环合的达玛烷型三萜, 其中化合物1为新化合物。

关键词: 西洋参茎叶总皂苷 氧化碱解 (12*R*,20*S*,24*R*)-20,24 12,24-diepoxy-24-deisopropyl-dammarane-3β-ol

New dammarane type triterpene with cyclization at the side chain from oxidative alkaline-degradation products of PQS

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Abstract:

To study the oxidative alkaline-degradation products of PQS (*Panax quinquefolium* saponin), two compounds were isolated from the crude product of oxidative alkaline-degradation by silica gel column chromatography, Sephadex LH-20 column chromatography and recrystallized methods. On the basis of spectroscopic analysis, their structures were established as (12*R*,20*S*,24*R*)-20,24;12,24-diepoxy-24-deisopropyl-dammarane-3β-ol (1) and (20*S*,24*R*)-20,24-epoxydammarane-3β,12β,25-triol (2). Compounds 1 and 2, dammarane type triterpene with cyclization at the side chain, were obtained for the first time from alkaline-degradation products of total ginsenosides of *Panax quinquefolium* L., compound 1 is a new compound.

Keywords: oxidative alkaline-degradation (12*R*,20*S*,24*R*)-20,24 12,24-diepoxy-24-deisopropyl-dammarane-3β-ol *Panax quinquefolium* saponin

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