

论文

黑柴胡中新三萜皂甙的结构鉴定

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摘要:

从黑柴胡(Bupleurum smithii Wolff)根中分离出10个化合物,均为首次由该植物中获得。其中二个新三萜皂甙,即柴胡皂甙k和l(saikosaponin k and l),其结构经紫外、红外、核磁共振氢谱,碳谱和质谱等波谱测定和解析,分别确定为3β,16β,23,28-四羟基齐墩果烷-11,13(18)-二烯-3-O-β-D-吡喃木糖基-(1→2)-β-D-吡喃葡萄糖基-(1→3)-β-D-吡喃呋糖甙和3β,16α,23,28,30-五羟基齐墩果烷-11,13(18)-二烯-3-O-β-D-吡喃葡萄糖基-(1→3)-β-D-吡喃呋糖甙。

关键词: 黑柴胡 三萜皂甙 柴胡皂甙K 柴胡皂甙1

ISOLATION AND IDENTIFICATION OF TWO NEW SAPONINS FROM BUPLEURUM SMITHII WOLFF

XK Chen; RY Zhang; ZL Zhang; TY Jiang and B Wang

Abstract:

Two new saikosaponins of oleanane type were isolated from the roots of Bupleurum smithii Wolff, collected in Minhe County, Qinghai, namely saikosaponin k(VI_b) and saikosaponin 1 (VIII). Their structures were elucidated on the basis of spectral analysis of UV, IR, ¹HNMR, ¹³CNMR and FAB-MS. Saikosaponin k (VI_b) was identified as 3β, 16β, 23, 28-tetrahydroxyoleana-11, 13(18)-dien-3-O-β-D-xylopyranosyl-(1→2)-β-D-glucopyranosyl-(1→3)-[β-D-fucopyranoside and saikosaponin 1 (VIII) as 3β, 16α, 23, 28, 30-pentahydroxyoleana-11, 13 (18)-dien-3-O-β-D-glucopyranosyl-(1→3)-β-D-fucopyranoside, respectively.

Keywords: Triterpenoidal saponin Saikosaponin k Saikosaponin 1 Bupleurum smithii Wolff

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