

论文

东北鹤虱果实中抗菌活性成分的研究

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摘要:

自紫草科植物东北鹤虱Lappula echinata Gilib.果实中分离出十六种化合物。其中晶XIII(一)-绿花倒提壶酸((一)-viridifloric acid)为一新的天然产物,晶XVI为一新酯甙,对香豆酰-α-L-鼠李吡喃糖甙[1-(p-coumaroyl)-α-L-rhamnopyranose]。并鉴定其它八种化合物为棕榈酸I、尿囊素III、腺嘌呤IV、腺甙VII、L-亮氨酸X、L-缬氨酸XI、L-酪氨酸XII和琥珀酸XV。I、VI、XIII、XV和XVI显示了不同程度的抗菌活性。

关键词: 东北鹤虱 抑菌活性 (一)-绿花倒提壶酸 对香豆酰-α-L-鼠李吡喃糖甙

STUDIES ON THE ANTIBACTERIAL CONSTITUENTS IN THE FRUIT OF LAPPULA ECHINATA GILIB

WANG Xiu-Chun; PEI Yue-Hu; LI Xian and ZHU Ting-Ru (T. R. ZHU)

Abstract:

Sixteen constituents (I ~ XVI) were isolated from the fruit of Lappula echinata Gilib.. Eight of them were identified as palmitic acid (I), allantoin (III), adenine(VI), adenosine(VII), L-leucine(X), L-valine(XI), L-tyrosine(XII), and succinic acid(XV).(-)-Viridifloric acid (XIII) was found from natural resource for the first time. All of them were first reported to occur in the Lappula genus. A new compound, 1-(p-coumaroyl)-α-L-rhamnopyranose(XVI), was elucidated on the basis of spectral data and chemical evidence. Antibacterial experiment showed that compounds I, VI, XIII, XV and XVI were all active. Structure determination of the other compounds is still underway.

Keywords: Borraginaceae Antibacterial constituents (-)-Viridifloric acid 1-(p-Coumaroyl)-α-L-rhamnopyranose Lappula echinata Gilib

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