

论文

苦瓜子有效成分研究

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摘要:

从苦瓜(Momordica charantia L.)的种子中,分离出五种成分,经光谱和化学方法确定其结构为:蚕豆甙,海藻糖,24β-乙基-5α-胆甾-7,反式-22E,25(27)-三烯,-3β-羟、基-3-O-β-D-吡喃葡萄糖甙,苦瓜子甙A,苦瓜子甙B。海藻糖系首次从该植物中分出,甾醇甙系首次从苦瓜属植物中分出,两个苦瓜子甙系新化合物。苦瓜子甙A对S180动物瘤组织DNA和RNA蛋白质合成有显著抑制作用。

关键词: 苦瓜 苦瓜子甙A 苦瓜子甙B 蚕豆甙 海藻糖

STUDIES ON THE ACTIVE CONSTITUENTS OF MOMORDICA CHARANTIA L.

ZJ Zhu; ZC Zhong; ZY Luo and ZY Xiao

Abstract:

Five compounds were isolated from the seeds of Momordica charantia. This paper reports their structure determination by spectral (IR, UV, ¹HNMR, ¹³CNMR, and MS) and chemical methods. The structures of I, II, III, IV and V were elucidated as vicine, mycose, 3 - O - (β - D - glucopyranosyl)-24β - ethyl - 5α - cholesta - 7, trans-22E, 25 (27) - trien - 3β - ol, momorcharaside A and momorcharaside B respectively. Mycose was the first time found in this plant and compound III was the first time found in the genus Momordica. IV and V were new compounds. IV exhibited obvious inhibition of DNA and RNA syntheses in S 180 tumor cells in preliminary pharmacological studies.

Keywords: Momorcharaside A Mornorcharaside B Vicine Mycose Momordica charantia L

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