

论文

海风藤中有PAF拮抗活性的苯呋喃类新木脂素

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摘要:

自福建产中药海风藤(Piper kadsura (Choisy)Ohwi)的藤茎中又分得5个苯呋喃类新木脂素,经光谱分析(UV,IR,MS,NMR,CD)和衍生物制备,确定化合物II和V为新结构。II为化合物denudatin B的对映体,命名为(-)-denudatin B,V为7S,8S-3,4,3'-三甲氧基-7'-氧-缺8',9'-7.O.4,'8.5'-新木脂素,命名为风藤素M(kadsurenin M)。化合物I,III和IV分别为已知化合物海风藤酮(I),(-)-acuminatin(III)和(+)-licarin A(IV)。PAF受体结合实验证明,(-)-denudatin B也具有较弱的PAF拮抗活性。

关键词: 海风藤 新木脂素 风藤素M 海风藤酮 血小板活化因子

PAF ANTAGONISTIC BENZOFURAN NEOLIGNANS FROM PIPER KADSURA

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Abstract:

In a continuing search for PAF antagonists, five benzofuran neolignans have been isolated from the aerial part of Piper kadsura (Choisy) Ohwi, a Chinese traditional drug used for the treatment of inflammation and rheumatic conditions. The structure determination was based upon spectroscopic analysis. Two of the neolignans were found to have new structures and were named as (-)-denudatin B (the enantiomer of denudatin B, II) and kadsurenin M (7S, 8S-3,4,3'-trimethoxy-7'-oxo-nor-8',9'-7. O. 4',8,5'-neolignan, V). The known compounds kadsurenone (I), (-)-acuminatin(III) and (+)-licarin A(IV) were also obtained from the same source. (-)-Denudatin B (II) showed potent PAF antagonistic activity in ³H-PAF receptor binding assay.

Keywords: Neolignans Kadsurenin M (-)-Denudatin B Kadsurenone PAF antagonist Piper kadsura

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