

论文

新疆藁本有效成分coniselin的全合成研究

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摘要:

关键词: 新疆藁本 4-亚甲二氧基-5-甲氧基苯乙酸-(3 4-亚甲二氧基-5-甲氧基)肉桂酯 选择性还原

STUDIES ON TOTAL SYNTHESIS OF CONISTLIN AN ACTIVE PRINCIPLE ISOLATED FROM CONISELINUM VAGINATUM THELL

PY Ding and DQ Yu

Abstract:

Three compounds(N<sub>1</sub>,N<sub>2</sub> and N<sub>3</sub>)had been isolated from Coniselinum vaginatum Thell and were shown to have strong hepatoprotective activities.Coniselin(N<sub>4</sub>)is a new naturalcompound isolated from the alcoholic extracts of C.vaginatum Thell.To confirm its structure andprepare enough sample for investigating its pharmacological activities , total synthesis of this compoundwas carried out.3-Methoxy-4,5-dihydroxy-methyl benzoate was used as starting material ,the targetmolecule was synthesized via a reaction sequence of 9 steps in an overall yield of 16.3%. Thiscompound was characterized by <sup>1</sup>HNMR,IR,<sup>13</sup>CNMR and MS and was found to have nohepatoprotective activity in preliminary pharmacological tests.

Keywords: Coniselin Selective reduction Coniselinum vaginatum Thell

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