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地黄苷的全合成

Total Synthesis of Martynoside

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英文关键词: [martynoside](#) [phenylpropanoid glycosides](#) [synthesis](#) [protective groups](#)

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中文摘要:

目的 合成天然苯丙素苷地黄苷。方法 以D-葡萄糖为起始原料, 经乙酰化、溴代、成醚、脱乙酰基、引入保护基和取代鼠李糖、脱亚苄基、酰化、脱除保护基等反应合成地黄苷。结果 首次完成苯丙素苷地黄苷的化学合成, 其结构经¹H-NMR、¹³C-NMR、MS和元素分析确证, 并与文献数据一致。结论 合成工艺原料易得, 方法可行。

英文摘要:

OBJECTIVE To synthesis the natural phenylpropanoid glycoside, martynoside. METHODS Using D-glucose as the starting material, martynoside was successfully synthesized via acetylation, bromination, etherification, removing acetyl, introducing protective groups and substituted rhamnose, removing benzylidene, acylation, and removing protective groups. RESULTS The chemical synthesis of the phenylpropanoid glycoside martynoside was realized for the first time. Its structure was identified by ¹H-NMR, ¹³C-NMR and MS spectroscopy, as well as by elemental analysis. CONCLUSION The starting materials are easy to get and the method is feasible.

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