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甘草3-羟基-3-甲基戊二酰辅酶A还原酶基因多态性对其编码酶催化效率的影响

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中文摘要:目的:利用GC-MS方法分析甘草不同3-羟基-3-甲基戊二酰辅酶A还原酶(HMG)基因型表达蛋白的催化效率,为揭示甘草HMGR 多去性在优质甘草与科形成中的作用宽定基础。方法:以从甘草中克隆的种HMGR基际突变型构建发达载体转化Exofethate of BL21。进行诱导表达、检测、纯化及体外酶极反应来用TLC及GC-M30 反应产物进行定性及定量分析。结果:1/V 重交变(-HSL_-HSV)催化活性应该,GA 插入型突变(GALLY,GALSV)催化活性运惊,但插入整实变的催化活性显著高于南名-随着的2倍 左右。结论:甘草功能基因HMGR基因多态性可能是甘草优质药材形成的分子基础。

中文关键词: $\underline{\text{HP}}$ 3-羟基-3-甲基戊二酰辅酶A还原酶(HMGR)基因 基因多态性 MVA

Researches on the influence of 3-hydroxy-3-methylglutary-coenzyme A reductase gene polymorphism on catalytic efficiency of its encode enzyme in Glycyrrhiza uralensis

Abstract:Objective: To analyse the effect of expression proteins containing different escherichia coli of 3-hydroxy-3-methylglutary-coenzyme A reductase(HMGR) genic mutation on the conversion efficiency of MVA with GC-MS method, in order to lay a foundation for revealing the function of HMGR gene polymorphism of GPy-cyrrhiza unralensis in the production of high-quality G. uralensis medicines. Method: The expression carrier was established from four HMGR genic mutation types cloned from G. marlensis and transformed into Escherichia coil B.2.1. The protein was uniqued to express, detected and purified. The purified protein was adopted for in vito enzymetraction. TLC and GC-MS were used for qualitative and quantitative analysis on reaction products. Result: The enaltylist carivity of Lygenotype-GBL and -HSV) was similar, and so was the catalytic activity of the production around 2 times higher than that of the former. Conclusion: The functional gene polymorphism of G. uralensis may be the molecular foundation for the production of high-quality G. uralensi medicines.

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