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蛇足石杉内生真菌抗乙酰胆碱酯酶活性筛选及分类鉴定

投稿时间: 2012-09-20 责任编辑: 点此下载全文

引用本文: 王莉莉·吕会芳·张丽·化海霞·王杰华·胡之璧·黎万奎·蛇足石杉内生真蘭抗乙酰胆碱酯酶活性筛选及分类鉴定[J].中国中药杂志;2012,37(24):3701.

DOI: 10.4268/cjcmm20122405

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基金项目:国家自然科学基金项目(30873386,81130070);上海高校优青基金项目(szy10036)

中文摘要:目的: 从蛇足石杉Huperzia serrata(Thunb. ex Murray) Trevis.內生真菌中筛选具有抗乙酰胆碱酯酶活性的菌株。方法: 利用乙酰胆碱酯酶水解~赛乙酯的产物和固蓄B盐发生基色反应的原理用调度色谱-生物自显影法对59株蛇足石杉內生真菌发酵产 物进行抗乙酰胆碱酯酶活性筛选,并通过18s NOAM,878.8s NONAP例分析结合形态学特征对目标菌株进行分类鉴定。结果: 蛇足石 杉内生真菌(Q2FU在抗乙酰胆碱脂酶活性筛选中呈现阳性颜色反应,18s nDNA和5.8s nDNAP例分析并给合形态学分类表明该菌 株属枝頂孢霉属Acremonium。结论: 蛇足石杉内生真菌LQ2F01表現出和宿主植物相同的抗乙酰胆碱脂酶活性 在天然药物开发以及内生真菌与宿主植物关系的研究中具有重要意义。

中文关键词:  $\underline{v}$  定足石杉 内生真菌 乙酰胆碱酯酶抑制剂  $\underline{18s\ rDNA}$   $\underline{5.8s\ rDNA}$   $\underline{t}$  顶孢霉属

 $Screening \ of \ end ophytic \ fungi \ from \ \textit{Huperzia serrata} \ for \ acetyl choline sterase \ inhibitory \ activity \ and$ its taxonomic identification

Abstract:Objective: To screen out fungus strains with acetylcholinesterase inhibitory activity from Hupercia serrata. Method: Endophytic fungi fermentation products from 59 H. serrata strains were stained with acetylcholinesterase hydrolyzed e-naphthaleneacetic ethyl elser and fast blue B sait, and screened for acetylcholinesterase inhibitory activity with hin-layer chromatography-bioautography. Target strains were classified and identified through be sequence analysis on 18s tDNA and 5.8s tDNA combined with morphological characteristics. Result: Fungus strain LQ2FOI from H. serrata showed positive color reaction in the screening for acetylcholinesterase inhibitory activity. The sequence analysis on 18s tDNA and 5.8s tDNA combined with morphological representations of the screening for acetylcholinesterase inhibitory activity. The sequence analysis on 18s tDNA and 5.8s tDNA combined with morphological representations of the screening for acetylcholinesterase inhibitory activity with the host plant, which is of great significance to the development of natural medicines and the studies on the relationship between the endophytic gungi and the host plant.

 keywords:
 Huperzia serrata
 endophytic fungi
 acetylcholinesterase inhibitor
 18s rDNA
 5.8s rDNA
 Acremonium

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