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昆虫学报, undefined 年, undefined 月, 第 undefined 卷, 第 undefined 期,
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题目: 斜带石斑鱼生长激素重组PACAP基因的原核表达及活性分析

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摘要: The objective of this study is to produce biologically active grouper recombinant pituitary adenylate cyclase activating polypeptide (PACAP). The cDNA encoding the mature grouper PACAP was isolated by RT-PCR using total RNA extracted from grouper brain. The expression plasmid pTRX-PACAP was constructed by inserting PACAP cDNA into plasmid pTRX and transformed into *E. coli* BL21(DE3). An expression strain BL21 (DE3) -pTRX-PACAP was selected. SDS-PAGE analysis revealed that the grouper PACAP protein was highly expressed and accumulated up to above 25% of the total bacterial proteins, which is present both in inclusion bodies and in soluble form. The soluble PACAP accounts for above 40%. After Ni²⁺-chelation affinity chromatography, the purified protein has a purity of over 95%. Purified PACAP protein could significantly promote the secretion of growth hormone (GH) from hypathelamas and pituitary mixture incubation [*Acta Zoologica Sinica* 51(6): 1162 - 1166, 2005].

关键词: 斜带石斑鱼 PACAP 重组表达 生长激素

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