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### 论文

抑制素β,亚基片段的合成及活性的初步测定

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摘要:

以固相多肽合成方法合成了抑制素 $β_a$ 亚基的六个片段: I b-βA(37 $\sim$ 39)-NH $_2$ (I), I b-βA(34 $\sim$ 39)-NH $_2$ (I), I b-βA(30 $\sim$ 39)-NH $_2$ (I), I b-βA(23 $\sim$ 39)-NH $_2$ (I), I b-βA(16 $\sim$ 39)-NH $_2$ (I) 和 I b-βA(14-39)-NH $_2$ (I), I p-gA(14-39)-NH $_2$ (I), I p-gA(15)-NH $_2$ (I), I p-gA(16)-NH $_2$ (I), I p-gA(17)-NH $_2$ (I), I p-gA(17)-NH $_2$ (I), I p-gA(17)-NH $_2$ (I), I p-gA(18)-NH $_2$ (I

关键词: 抑制素β<sub>a</sub>亚基片段 HPLC 固相多肽合成

# SYNTHESES AND PRELIMINARY BIOASSAYS OF INHIBIN SEGMENTS

AM Liu and GC Lu

### Abstract:

Six segments within the subunit beta-A of the follicular inhibin have been synthesized by an improved solid phase procedure on p-methyl-benzhydrylamine (1% divinylbenzene) resin. The courses of the syntheses were monitored by quantitative ninhydrin assays and amino acid analyses. Following the cleavage by HF-pcresol (9:1 V/V), the peptides were extracted with anhydrous trifluoroacetic acid containing 1% dithiothreitol and precipitated with dry ethyl ether. The purification was achieved uniquely by reverse phase HPLC and final products were craracserized by several TLC systems, analytical HPLC and amino acid analyses. Pituitary cell culture bioassays were performed to ascertain their biological activities. However, among these synthetic peptides, the small peptides Ib- $\beta_a(37\sim39)$ NH $_2(II)$ , Ib- $\beta_A(34\sim39)$ NH $_2(II)$ , and ib- $\beta_A(30\sim39)$ NH $_2(III)$ showed no significant supression on the LHRH-induced FSH secretion; the large peptides Ib- $\beta_A(23\sim39)$ NH $_2(IV)$ , Ib- $\beta_A(16\sim39)$ NH $_2(V)$ , and Ib- $\beta_A(14\sim39)$ NH $_2(VI)$  lack adequate solubility in neutral media, and other methods are to be sought to test their bioactivities.

Keywords: HPLC Solid phase peptide synthssis Inhibin

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