

论文

对-氯苯丙炔酰胺类化合物的合成及其与肼反应产物的研究

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摘要:

关键词: 对-氯苯丙炔酰胺 桂皮酰胺 桂皮酰肼 吡唑酮 抗惊作用

STUDIES ON SYNTHESIS OF p-CHLOROPHENYLPROPIOLYLAMIDES AND ITS REACTION PRODUCTS WITH HYDRAZINE

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Abstract:

Synthesis of p-chlorophenylpropiolylamides and its reaction products with hydrazine hydrate were studied. It was found that the reaction products varied with the different Substituent groups in the amide. When the substituent group was isopropyl or sec-butyl group, p-chloro-β-hydrazino-cinnamamides (II) were obtained. Under similar reaction conditions, when the substituent group was n-propyl, n-butyl or diethyl group, cyclization reaction occurred and the reaction product was 3-(p-chlorophenyl)-pyrazol-5-one (III). All the compounds were tested in mice for anticonvulsant activity. Preliminary data showed that p-chlorophenyl-propiolyl-sec-butylamide (I<sub>4</sub>) and p-chlorophenyl-propiolyl-n-propylamide (I<sub>1</sub>) exhibited moderate anticonvulsant activity. The ED<sub>50</sub> was 54.5(34.4~86.4), and 56.1(31.6~99.6) mg/kg respectively. The compounds of p-chloro-β-hydrazino-cinnamamide (II) and 3-(p-chlorophenyl)-pyrazol-5-one (III) showed no significant effect on antieconvulsant activity. p-Chloro-cinnamoyl-hydrazide (IV) provided good anticonvulsant activity.

Keywords: Cinnamamide Cinnamoyl hydrazide Pyrazolone Anticonvulsant activity p-Chlorophenylpropiolylamide

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