药学学报 1999, 34(1) 23-28 DOI: ISSN: CN:

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#### 论文

6-(4'-取代酰胺基苯基)-4,5-二氢-3(2H)-哒嗪酮类化合物的合成及其抑制血小板聚集作用

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摘要:

目的: 6-(4'-取代苯基)-4,5-二氢-3(2H)-哒嗪酮类化合物的合成及抗血小板聚集活性的研究。方法: 通过付-克反应、碳链延长、水解和环合反应得到两个关键中间体,然后通过酰化反应制得各种酰胺化合物; 参考Born比浊法测定目标化合物的抗血小板聚集活性。结果: 设计合成了24个6-(4'-取代酰胺基苯基)-4,5-二氢-3(2H)-哒嗪酮类化合物,22个为首次报道: 所有化合物在体外对ADP诱导的兔血小板聚集均有不同程度的抑制作用,第II类化合物的抑制作用强于第I类化合物,其中I<sub>1</sub>,I<sub>3</sub>,II<sub>1</sub>,I<sub>3</sub>,II<sub>4</sub>,II<sub>6</sub>和II<sub>9</sub>的抑制作用均强于对照药CI-930,其中II<sub>1</sub>和II<sub>3</sub>的抑制作用最强,其IC<sub>50</sub>约为CI-930的1/10。结论: 其中一些化合物显示较强的抗血小板聚集活性,值得进一步研究。

关键词: 哒嗪酮: 酰胺基: 血小板聚集抑制剂

SYNTHESIS AND PLATELET AGGREGATION INHIBITORY ACTIVITY OF 6- (4'-SUBSTITUTED ACYLAMINOPHENYL)-4,5-DIHYDRO-3-(2H)-PYRIDAZINONES

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#### Abstract:

AIM: To study the synthesis and antiplatelet aggregation activity of 6-(4'-substituted acyl aminophenyl)-4,5-dihydro-3(2H)-pyridazinones. METHODS: The title compounds were synthesized by acylation of twelve acyl chlorides and two intermediates prepared by Friedel-Crafts reaction, lengthening of carbon chain, hydrolysis and cyclization; the antiplatelet aggregation activity of the title compounds was measured by Born's method. RESULTS: Twenty four 6-(4'-substituted acyl aminophenyl)-4,5-dihydro-3 (2H)-pyridazinones were designed and synthesized. Of them, 22 were first reported. The chemical structures of all the compounds were determined by IR, 1HNMR and elementary analysis. The intermediate, 6-(4'-aminophenyl)-4,5-dihydro-3(2H)-pyridazinones, was synthesized by two methods. Preliminary pharmacological tests showed that all of the title compounds inhibited ADP induced platelet aggregation to a certain extent. Compounds II showed more potent inhibition than did compounds I. The inhibitory activities of  $I_1$ ,  $I_3$ ,  $II_4$ ,  $II_6$  and  $II_9$ , were more potent than that of the control compound CI-930. The inhibitory effect of II1 and II3 against platelet aggregation were about ten times of that of CI-930. CONCLUSION: Some of the title compounds showed potent activity of antiplatelet aggregation and should be studied further.

Keywords: acylamino platelet aggregation inhibition pyridazinone

收稿日期 1997-10-11 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

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