

论文

小鼠尾动脉条应用于 α 肾上腺素受体激动剂、拮抗剂和钙拮抗剂的研究

石成璋;李锡明;刘云;张均田

中国医学科学院药物研究所,北京100050

摘要:

关键词: 小鼠尾动脉 α -肾上腺素能受体激动剂和拮抗剂 钙拮抗剂

APPLICATION OF MOUSE TAIL ARTERY FOR THE STUDY OF ALPHA ADRENOCEPTOR AGONISTS AND ANTAGONISTS AND CALCIUM ANTAGONISTS

CZ Ski; XM Li; Y Liu and JT Zhang

Abstract:

Isolated mouse tail artery strip was used for the study of α_1 -, α_2 -adrenoceptor agonists and antagonists. NA (α_1 and α_2 agonist) was shown to have greater activity in contracting tail artery. Phenylephrine (α_1 agonist) and clonidine (α_2 agonist) exhibited the same contractile action but much weaker than NA. Prazosin(α_1 antagonist) and yohimbine (α_2 antagonist) greatly diminished the contraction induced by phenylephrine and clonidine. These results indicate that mouse tail artery is rich in postsynaptic α_1 -and α_2 -adrenoceptor. In addition, mouse tail artery preparation was shown to be a useful tool for screening calcium agonists and antagonists. This model has advantages of being simple and easy to prepare, short equilibrium time and more economic in comparison with the helical strips of isolated rat tail artery.

Keywords: α -Adrenoceptor agonists and antagonists Calcium antagonists Mouse tail artery

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作者简介:

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