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黄酮类化合物对醛糖还原酶的抑制作用

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摘要:

本文建立了一个微量、简便、快速的醛糖还原酶抑制剂筛选方法,对32个黄酮类化合物进行了筛选。其中黄芩甙元 和异金丝桃甙乙酸盐作用较强, IC_{50} 分别为 3.5×10^{-6} M及 2.2×10^{-6} M。此外,还对其抑制酶的动力学进行了分析。 关键词: 醛糖还原酶 醛糖还原酶抑制剂 黄酮类化合物

INHIBITION OF ALDOSE REDUCTASE FROM RAT LENS BY FLAVONOIDS

XIE Ming-Zhi and SHEN Zhu-Fang

Abstract:

Thirty two flavonoid compounds were screened for inhibition of rat lens aldose reductase activity, among ▶醛糖还原酶抑制剂 which baiclein and Isohyperoside acetate were found to exhibit markedly enzyme-inhibitary activities with IC_{50} values of 3.5×10^{-6} M and 2.2×10^{-6} M, respectively. Baiclein displayed a mixed noncompetitive and competitive inhibition, while isohyperoside acetate a mixed noncompetitive and uncompetitive type of inhibition. Increased aldose reductase activity has been implicated in pathogenesis of diabetic complications so that treatment of these diabetic complications with aldose reductase inhibitors may be a valid approach.

Keywords: Aldose reductase inhibitor Flavonoid Aldose reductase

收稿日期 1985-12-18 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者:

作者简介:

参考文献:

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