«上一篇/Previous Article|本期目录/Table of Contents|下一篇/Next Article»

[1]张晓辉,孙乃学,冯朝晖,等.ROCK- [选择性抑制剂Y-27632对人Tenon囊成纤维细胞增殖、凋亡和黏附性的影响[J].第三军医大学学报,2013,35(01):38-41.

Zhang Xiaohui, Sun Naixue, Feng Zhaohui, et al. Effect of Y-27632, a selective inhibitor of ROCK-I, on proliferation, apoptosis and adhesion of human ocular Tenon's capsular fibroblasts[J]. J Third Mil Med Univ, 2013, 35(01):38-41.

ROCK- I 选择性抑制剂Y-27632对人Tenon囊成纤维细胞增殖、凋亡 本期目录/Table of Contents

(PDF)

《第三军医大学学报》[ISSN:1000-5404/CN:51-1095/R] 卷: 35 期数: 2013年第01期 页码: 38-41 栏目: 论著 出版日期: 2013-01-15

Title: Effect of Y-27632, a selective inhibitor of ROCK-I, on proliferation, apoptosis and adhesion of

human ocular Tenon's capsular fibroblasts

作者: 张晓辉; 孙乃学; 冯朝晖; 王超; 张懿; 王建明

西安交通大学医学院第二附属医院眼科; 第四军医大学西京医院药剂科

Author(s): Zhang Xiaohui; Sun Naixue; Feng Zhaohui; Wang Chao; Zhang Yi; Wang Jianming

Department of Ophthalmology, Second Affiliated Hospital, Medical College of Xi' an Jiaotong University, Xi' an,

Shaanxi Province, 710004; Department of Pharmacology, Xijing Hospital, Xi, an, Shaanxi Province, 710032, China

关键词: Y-27632; 人Tenon囊成纤维细胞; 增殖; 凋亡; 黏附性

Keywords: Y-27632; ocular Tenon's capsule fibroblasts; propagation; apoptosis; adhesion

R322.91; R329.25; R988.1 分类号:

DOI: 文献标识码: A

观察ROCK- I 选择性抑制剂Y-27632对体外培养的人眼Tenon囊成纤维细胞 (ocular Tenon capsule fibroblasts, 摘要:

体外培养的第4~6代OTFs经溶血磷脂酸 (lysophosphatidic acid, LPA) OTFs) 增殖、凋亡和黏附性的影响。 方法 诱导后,不同浓度Y-27632处理,采用MTT测定细胞增殖抑制率和细胞黏附抑制率,未经LPA诱导OTFs细胞同时采用 Annexin V-FITC/PI双标记流式细胞术测定细胞凋亡率,以及细胞平板克隆增殖实验测定不同浓度Y-27632组OTFs细胞增殖 6、30、150、750 μmol/L Y-27632各组经LPA诱导的OTFs细胞增殖抑制D(490)与LPA组比较,差

异均有统计学意义(P<0.05, P<0.01), OTFs细胞黏附抑制D(490)与LPA组比较,同样具有统计学差异(P<0.05, P<0.01)。随着Y-27632浓度增加,细胞凋亡率相应增加。未经LPA诱导的OTFs细胞克隆形成率随着Y27632浓度的增高而降

Y-27632有效抑制LPA诱导的OTFs增殖和细胞间黏附,诱导细胞早期凋亡。

Abstract: Objective To investigate the effect of Y-27632, a selective inhibitor of ROCK-I, on the proliferation, apoptosis

> and adhesion of human ocular Tenon's capsular fibroblasts (OTFs) in vitro. lysophosphatidic acid (LPA), the fourth to sixth passages of OTFs were exposed to 6, 30, 150 and 750 µmol/L of Y-27632 for 48 h, respectively, and MTT assay was applied to determine the inhibition ratios of cell proliferation and adhesion. OTFs without LPA induction were treated with different concentrations of Y-27632, and Annexin V-

FITC/PI double labeling flow cytometry was applied to determine cell apoptotic rate. The cell cloning efficiency was calculated by cell plate clonal expansion experiment. Results The proliferation inhibition D(490) and adhesion inhibition D(490) of OTFs treated with LPA+Y-27632 were significantly greater than those of LPA-induced OTFs (P<0.05, P<0.01). Cell apoptotic rate increased along with the increase of Y-27632 concentrations, and the

concentrations. Conclusion Y-27632 can effectively inhibit both proliferation and adhesion of LPA-induced

cloning efficiency of OTFs without LPA induction decreased along with the increase of Y-27632

OTFs, and induce early apoptosis of OTFs without LPA induction.

参考文献/REFERENCES

张晓辉,孙乃学,冯朝晖,等. ROCK-I选择性抑制剂Y-27632对人Tenon囊成纤维细胞增殖、凋亡和黏附性的影响[J].第三军医大学学报,2013,35(1):38-41.

Methods

备注/Memo: -

/Last Update: 2012-12-31

导航/NAVIGATE

下一篇/Next Article

上一篇/Previous Article

工具/TOOLS

引用本文的文章/References

下载 PDF/Download PDF(721KB)

立即打印本文/Print Now

推荐给朋友/Recommend

查看/发表评论/Comments

统计/STATISTICS

摘要浏览/Viewed 153

全文下载/Downloads 70

评论/Comments

RSS XML