药学学报 2005, 40(2) 136-140 DOI: ISSN: CN:

论文

PPARγ激动剂的设计、合成及其胰岛素增敏活性

钟朝斌;朱学军;刘忠荣;高小平;王学超

成都地奥制药集团药物研究所, 四川 成都 610041

摘要:

目的寻找新的高效、低毒的PPARγ激动剂。方法以JTT-501和JTT-20993为先导化合物，设计并合成新的丙二酸类和异恶唑类化合物，并测定其胰岛素增敏活性。结果共合成了8个新化合物,用核磁共振、质谱和红外光谱进行结构确证，并用胰岛素筛选模型初步评价了这些化合物的胰岛素增敏活性。化合物1A-4A显示胰岛素增敏活性,其中化合物1A和3A有较强活性。结论化合物1A和3A值得进一步评价。

关键词： PPARγ激动剂 合成 胰岛素增敏活性

Design, synthesis and insulin-sensitizing activity of some peroxisome proliferator-activated γ agonists

ZHONG Chao-bin; ZHU Xue-jun; LIU Zhong-rong; GAO Xiao-ping; WANG Xue-chao

Abstract:

AimTo find new peroxisome proliferator-activated γ agonists with high activity and low toxicity. MethodsBased on JTT-501 and JTT-20993, new isoxazolidine-3,5-dione and noncyclic 1,3-dicarbonyl compounds were designed and synthesized. Their insulin-sensitizing activities were evaluated. ResultsEight new compounds were obtained. The structures of synthesized compounds were characterized by NMR, MS and IR. Four compounds (1A-4A) showed insulin-sensitizing activities. ConclusionCompounds (1A and 3A) showed excellent insulin-sensitizing activities and should be worth further investigation.

Keywords: syntheses insulin-sensitizing activity PPARγ agonists

收稿日期 2004-03-12 修回日期 网络版发布日期

DOI:

基金项目:

通讯作者: 王学超

作者简介:

参考文献:

本刊中的类似文章

文章评论 (请注意:本站实行文责自负, 请不要发表与学术无关的内容!评论内容不代表本站观点.)

反馈人		邮箱地址	

反馈标题		验证码	9390