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论文			扩展功能
氟他胺在大鼠肝微粒体经细胞色素P450 1A2代谢的性别差异			大·大/(1000000000000000000000000000000000000
王海学;李端;许长江;刘骁			平文旧心 Supporting info
复日十学苭学院苭理学教研会 上海 200032			
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摘要:			「[FIML主义] 」 会类立礎
	아파 수수 사내, 미나 구수, 무너 티가 파수		▶ 多 写 义 瞅
目的体外研究大鼠肝微粒体细胞色素P450 1A2(CYP1A2)对氟他胺(flutamide Flu)代	谢的性别差异影响。	力法制备	版 <u>分</u> 与又顷
止幂♀♂乙兩肝微粒体,用CYP1A2犰体与氟他胺(2 mg·L ⁻⁺)共同温孵,测定氟他胺王要 hydroxyflutamide HE)和原药的浓度比(HE/Elu) 评价氟他胺在大鼠肝微粒体代谢的	代谢产物2-羟基氟他 性别差异。结果在C	1胺(2- YP1A2抗	▶ 把本文推荐给朋友
体浓度为1:400,孵育时间为30 min条件下,氟他胺在♂大鼠肝微粒体中的HF/Flu为(1.5	5±0.6),而♀动物为	11 17(2.)/6	▶ 加入我的书架
(0.9±0.4)。不同性别大鼠肝微粒体对氟他胺的代谢存在性别差异(P<0.01)。结论Flu	u在o大鼠肝微粒体中	P代谢快,而	▶ 加入引用管理器
在♀大鼠肝微粒体中代谢较慢。♂大鼠体内的CYP1A2酶活性高于♀大鼠。			▶ 引用本文
关键词: 氟他胺 2-羟基氟他胺 细胞色素P450 1A2 肝微粒体			Email Alert
			▶文章反馈
SEX-DIFFERENCE ON FLUTAMIDE METABOLISM IN RAT LIVER N	/I CROSOMAL		▶浏览反馈信息
CYTOCHROME P450 1A2			本文关键词相关文章
WANG Hai-xue; LI Duan; XU Chang-jiang; LIU Xiao			▶ 氟他胺
			▶2-羟基氟他胺
			▶细胞色素P450 1A2
Abstract:			▶ 肝微粒体
AIMTo assess the sex-difference on flutamide metabolism in rat liver microso	mes useing rat cy	tochrome	本文作者相关文章
P450 1A2, inhibitory monoclonal antibody. METHODSLiver microsomes were p	prepared from ma	le or	▶ 王海学
female rats. Protein concentration and total cytochrome P450 content were de	etermined. Incuba	tion	▶李端
mixture included liver microsomes (1.0 nmol·L ⁻¹), reduced form of nicotinami	ide adenine dinucl	eotide	▶ 许长江
phosphate (NADPH, 0.1 nmol·L ⁻), CYP1A2 (1:400) and flutamide (2 mg·L ⁻). 30 min. The concentration of flutamide and its major metabolite 2-hydroxyflut	. The incubation til tamide were analy	me was vzed by	▶ 刘骁
reverse high-performance liquid chromatography. The mobile phase was a mi	ixture of methano	-	PubMed
acetonitrile-water-diethylether (40:20:35:1) with methyltestosterone as inter-	nal standard. The	detection	Article by
wavelength was 234 nm. The reaction mixture was extracted with acetic ethe	Article by		
flutamide metabolism was expressed as the difference between the concentra	ation ratio of 2-	c of	Article by
flutamide and 2-hydroxyflutamide for the proposed method were more than 7	5% The formatio	n of 2-	Articlo by
hydroxyflutamide from flutamide was inhibited by CYP1A2 antibodies (1:400)	in male and fema	le rat	A LICE DY
liver microsome for 30 min of incubation time, but the inhibition of flutamide r	metabolism in fem	ale rat	

 (1.5 ± 0.6) and (0.9 ± 0.4) in male and female rat liver microsomes, respectively (*P*<0.01). CONCLUSIONThe results indicate that the activity of male rat CYP1A2 is higher than that of the female rat. There is difference in sex-related rate of flutamide metabolism in rat liver microsomes.

was stronger than that in male. The concentration ratios of 2-hydroxyflutamide to flutamide were

Keywords: 2-hydroxyflutamide cytochrome P450 1A2 liver microsomes flutamide

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