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论著

有机锗(Ge - 132) 对大鼠肝细胞色素P450 、EROD 活性抑制作用的研究

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摘要 利用雄性SD 大鼠每日经口给予有机锗(Ge - 132) 100 、250 、500mg/ kg 连续二十五d ,发现高剂量组的肝细胞色素P450受到明显抑制(P < 0. 05) 。对P448的标志酶乙氧基异吩口恶唑脱乙氧基酶(EROD) 的抑制也近50 %;动物以Ge - 132 500mg/ kg/ d 预先处理20d ,再分别给予苯巴比妥钠盐(PB) 、3 - 甲基胆蒽(3 - MC) ,发现Ge - 132 对PB 诱导P450的抑制不明显,而对3 - MC 诱导EROD 的抑制仍达33 %。

关键词 有机锗(Ge - 132) P450 EROD 活性 抑制作用

STUDY ON THE INHIBITION OF CYT P450 CONTENT AND EROD ACTIVITY OF LIVER MICROSOMAL PREPARATION BY ORGANOAERMANIUM COMPOUNDS (G- 132) IN RATS

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Abstract Male SD rat s were fed orally with Ge - 132 100 , 250 and 500mg/ kg each day for 25days , Cyt P450 of liver cell of high dose group was inhibited significantly (P < 0. 05) , EROD activity was also inhibited about 50 percent in the group compared with the cont rol. The animals were pret reated with Ge - 132 500mg/ kg/ d for 20 days , then give PB and 3 - MC , found that the inhibition of P450 induced by PB was not obvious , but there was 33 percent inhibition of EROD activity induced by 3 - MC.

Keywords Organogermaninm Compounds (Ge - 132) P450 EROD activity Inhibition

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