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作者 中文 名	作者英文 名	单位中文名	单位英文名	E-Mail
<u>张瑞</u>	ZHANG Ruichen	北京中医药大学 中药 学院 生物制药系,北京 100102	Department of Biopharmaceutics, College of Chinese Pharmacy, Beijing University of Chinese Medicine, Beijing 100102, China	
张超	ZHANG Chao	北京中医药大学 中 <u>药</u> 学院 生物制药系,北京 100102	Department of Biopharmaceutics, College of Chinese Pharmacy, Beijing University of Chinese Medicine, Beijing 100102, China	
<u>孙震</u> 晓	SUN Zhenxiao	北京中医药大学 中药 学院 生物制药系,北京 100102	Department of Biopharmaceutics, College of Chinese Pharmacy, Beijing University of Chinese Medicine, Beijing 100102, China	sunzxcn@hotmail.com
邓巧 虹	DENG Qiaohong	学院 中药化学系,北京	Department of Traditional Chinese Medicine Chemistry, College of Chinese Pharmacy, Beijing University of Chinese Medicine, Beijing 100102, China	

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Damage effect of Polygonum multiflorum fractions on human normal liver cells L02 and liver cancer cells HepG2

AbstractObjective: To investigate the damage effect of different fractions from Polygonum multiflorum on normal human liver and liver cancer cells, in order to seek for fractions that can obviously lill cancer cells but have less impact on normal liver cells, and make a preliminary study on different mechanism of the two kinds of cells. Method: P. multiflorum water-cluted fraction(RSV) soft-chand-eluted fraction(RSV). Soft-chand-eluted fraction(RSV) soft-chand-eluted fraction(RSV) soft-chand-eluted fraction(RSV). Soft-mand-eluted fraction shaded inverted microscope were adopted to observe the impact of LD2 on growth of HepG2 cells, screening fractions with damage effect and detect their doses and time effect. Giensus stain showed changes in cell nucleus later administration and flow cytometry analysis was used to detect cycle and poptosis of LD2 cells. Result: MTT method and inverted microscope showed that RSO float 4, significant growth inhibition effects on LD2 and HepG2 cells. According to giensa stain and flow cytometry analysis. RSO showed different detect on inducing the two cells showed less than 5% of apoptotic cells in the negative control group in each time phase). However, there is no significant impact on cycle of both cells. Conclusion: RSO from P. multipleorum extracts had different damage effects on human liver LD2 cells and liver cancer HepG2 cells, which was caused by different degree of induction on apoptosis of the two cells in nature.

keywords:Polygonum multiflorum liver cell liver cancer cell different damage apoptosis cell cycle

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