

论文

灵芝孢子粉多糖Lzps-1的化学研究及其总多糖的抗肿瘤活性

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摘要:

目的研究微波软化灵芝孢子粉中的多糖组分及其抗肿瘤活性。方法用水提取微波软化灵芝孢子粉总多糖, 总多糖经分级沉淀得到多糖组分Lzps-C, 再采用DEAE-cellulose和Sephadex G-50柱色谱进行分离纯化, 用化学和光谱方法分析其结构。结果从微波软化灵芝孢子粉的水提物中分得一个多糖Lzps-1, 其平均分子量为8 000, 为葡聚糖。微波软化灵芝孢子粉的水提物得到的总多糖Lzps对小鼠Lewis肺癌、小鼠S<sub>180</sub>肉瘤有较好的抑制作用, 并能明显提高荷Lewis肺癌小鼠NK活性。结论Lzps-1是首次从灵芝孢子粉中分离得到。Lzps具有抗癌活性。

关键词: 灵芝孢子 多糖 抗肿瘤

Chemistry of polysaccharide Lzps-1 from *Ganoderma lucidum* spore and anti-tumor activity of its total polysaccharides

JIANG Yan; WANG Hao; L Long; TIAN Geng-yuan

Abstract:

AimTo study the structure and anti-tumor activity of polysaccharide from *Ganoderma lucidum* spore treated with microwave. MethodsDEAE-cellulose and Sephadex G-50 column chromatography were used to isolate and purify the polysaccharide whose structure was characterized by using chemical and spectral methods. Results and ConclusionOne polysaccharide, named Lzps-1 was obtained from the water extract, with its molecular weight estimated by HPGPC to be 8 000. Its structure was investigated to be glucan. The total polysaccharides, Lzps processed antitumor activity against sarcoma 180 and Lewis lung cancer in mice and enhanced the NK cell activity. Lzps-1 is obtained for the first time from *Ganoderma spore* Lzps has anti-tumor activity.

Keywords: polysaccharide antitumor *Ganoderma lucidum* spore

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