Accepted Manuscript

Title: Chemical characterization and *in vitro* antitumor activity of a single-component polysaccharide from *Taxus chinensis var. mairei*

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PII: S0144-8617(15)00625-6

DOI: http://dx.doi.org/doi:10.1016/j.carbpol.2015.06.107

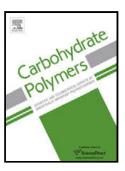
Reference: CARP 10098

To appear in:

Received date: 25-10-2014 Revised date: 25-6-2015 Accepted date: 26-6-2015

Please cite this article as: Wu, Mianbin., Zhang, Feifei., Yu, Zhangping., Lin, Jianping., & Yang, Lirong., Chemical characterization and in vitro antitumor activity of a single-component polysaccharide from Taxus chinensis var.mairei. *Carbohydrate Polymers* http://dx.doi.org/10.1016/j.carbpol.2015.06.107

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ACCEPTED MANUSCRIPT

Chemical characterization and *in vitro* antitumor activity of a single-component polysaccharide from *Taxus chinensis var*. *mairei*

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Highlights

This work is the first time reported in research of structure and bioactivity of an alkali-soluble single-component polysaccharide (named CPTC-2) isolated and purified from *Taxus* chinensis var. mairei by ion-exchange and gel-permeation chromatography in series.

The authors used a variety of methods to analyze the structure properties of polysaccharide and get a fully understangding of the structure of CPTC-2. Moreover, the combination of MTS assay and flow cytometry method was adopted to study the antitumor function of CPTC-2.

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