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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 understanding 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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