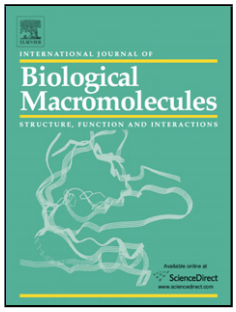

Title: Water-soluble polysaccharide from *Erythronium sibiricum* bulb: Structural characterisation and immunomodulating activity

Authors: Rena Kasimu, Chunli Chen, Xiangyun Xie, Xue Li

PII: S0141-8130(17)30262-3
DOI: http://dx.doi.org/doi:10.1016/j.ijbiomac.2017.07.060
Reference: BIOMAC 7868

To appear in: *International Journal of Biological Macromolecules*

Received date: 21-1-2017
Revised date: 3-6-2017
Accepted date: 10-7-2017

Please cite this article as: Rena Kasimu, Chunli Chen, Xiangyun Xie, Xue Li, Water-soluble polysaccharide from Erythronium sibiricum bulb: Structural characterisation and immunomodulating activity, International Journal of Biological Macromoleculeshttp://dx.doi.org/10.1016/j.ijbiomac.2017.07.060

Water-soluble polysaccharide from *Erythronium sibiricum* bulb: Structural characterisation and immunomodulating activity

Rena Kasimu[a,*], Chunli Chen[a], Xiangyun Xie[a] and Xue Li[b]

[a]Pharmacy College of Xinjiang Medical University, Urumqi 830011, China

[b]Supervision and Testing Center for Quality and Safety of Agri-products of Xinjiang Uygur Autonomous Region, Urumqi 830049, China

[*]Correspondence: Tel.:+86 991 4362473; fax: +86 991 4362473

E-mail address: renakasimu@vip.sina.com (Renakasimu)

Highlights

- a water-soluble polysaccharide named ESBP2-1 was isolated and purified from the crude polysaccharides of *E. sibiricum* bulb.
- The structure of ESBP2-1 was characterised through a combination of chemical and spectroscopic methods.
- Immunomodulatory assays showed ESBP2-1 from *Erythronium sibiricum* bulb had a positive immunomodulatory activity.

ABSTRACT: A water-soluble polysaccharide named ESBP2-1 was isolated from *Erythronium sibiricum* bulb through anion-exchange and size-exclusion chromatography. ESBP2-1 is a neutral