Reviewer's report

**Title:** Polysaccharides from the root of Angelica sinesis promotes hematopoiesis and thrombopoiesis through the PI3K/AKT pathway

**Version:** 1 **Date:** 21 May 2010

**Reviewer:** Thomas Stief

**Reviewer's report:**

**Major**

Could you exclude that the spleen size increases due to impurities of APS?

What was the LPS or β-glucan content of your APS preparation? This should be checked by the chromogenic Limulus assay.

200 mg/ml APS given to M-07e cells seem to me an extraordinarily high concentration. APS should be analyzed at concentrations that are in the range of future clinical dosages.

A clear dose-response study on APS is missing. In one good experiment you should clearly demonstrate the dose-response of increasing concentrations of APS on any biologic system.

What is the exact chemical nature of APS?

**Minor**

Explain the abbreviation TCM the moment it appears for the first time.

Wavelength range 400-4000 nm? What is meant by cm-1?

Explain what is AKT?

Figure 5 must be explained, what is A,B,C,D?

**Level of interest:** An article of limited interest

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

I declare that I have no competing interests.