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Authors: Junlong Wang, Aijuan Bao, Qi Wang, Hongyun Guo, Yongdong Zhang, Junyu Liang, Weibao Kong, Jian Yao, Ji Zhang



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Manuscript**Sulfation can enhance antitumor activities of *Artemisia sphaerocephala* polysaccharide in vitro and vivo**

Junlong Wang^{a,c*}, Aijuan Bao^a, Qi Wang^a, Hongyun Guo^b, Yongdong Zhang^b, Junyu Liang^a,

Weibao Kong^a, Jian Yao^{a,c}, Ji Zhang^{a,c}

^a College of Life Science, Northwest Normal University, Lanzhou 730070, China

^b Gansu Academy of Medical Sciences, Lanzhou 730050, China

^c Bioactive Products Engineering Research Center for Gansu Distinctive Plants, Northwest Normal University,

Lanzhou 730070, China.

* Corresponding author: Junlong Wang Address: College of Life Science, Northwest Normal University, Anning East Road 967, Lanzhou, China

Fax: +86-0931-7971414 e-mail: nuno-vai@163.com

Highlights

- Bullet point (1): Sulfated *Artemisia sphaerocephala* polysaccharide (ASP_S) could inhibit the proliferation of HepG2 and Hela cells in vitro.
- Bullet point (2): ASP_S exhibited greater antitumor activities in H22 tumor-bearing mice.
- Bullet point (3): ASP_S showed stronger property in decreasing the expression of mutant p53 protein in vivo.
- Bullet point (4): The introduction of sulfate group could enhance antitumor activities of polysaccharide in vitro and vivo.

Abstract

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