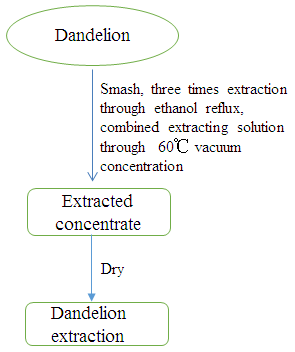
**Supplementary Figures and Methods**

**Supplementary Figures**

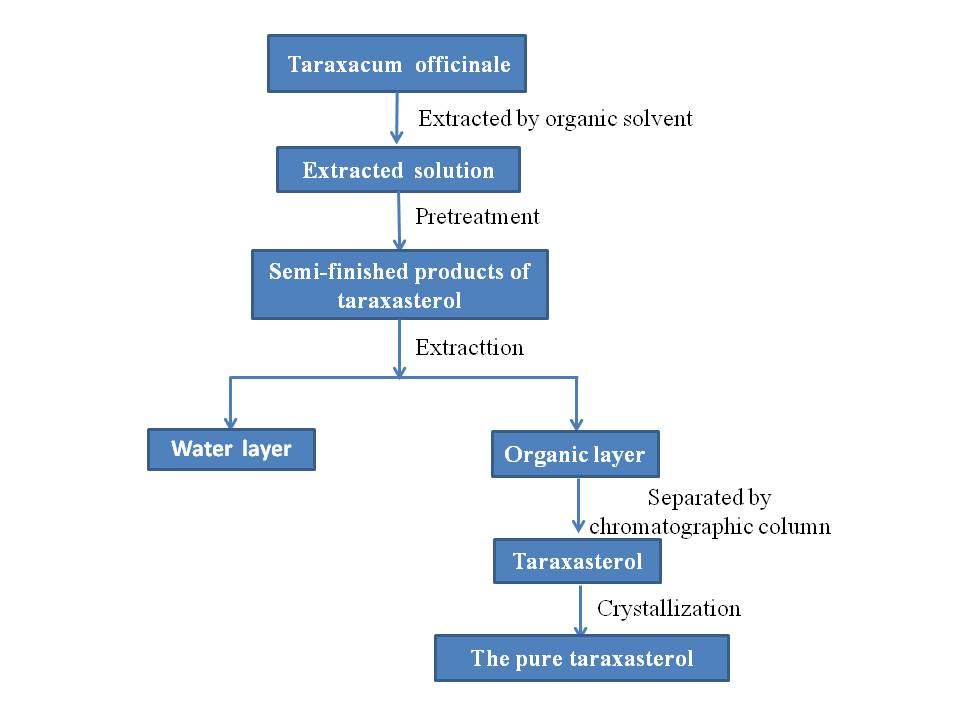
**Fig.S1** A voucher specimen for *Taraxacum officinale* F.H.Wigg.(compositae)



**Fig.S2** Supplementary methods for the extraction process of dandelion or taraxasterol

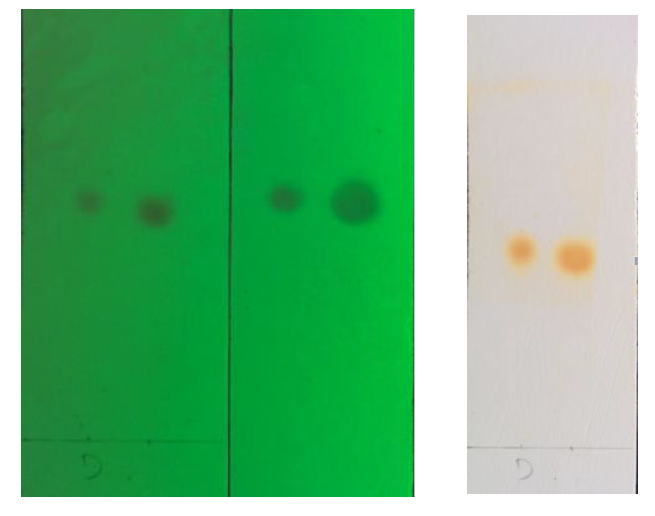


**Fig.S2-1** The extraction process of dandelion

**

**Fig.S2-2** The extraction process of taraxasterol

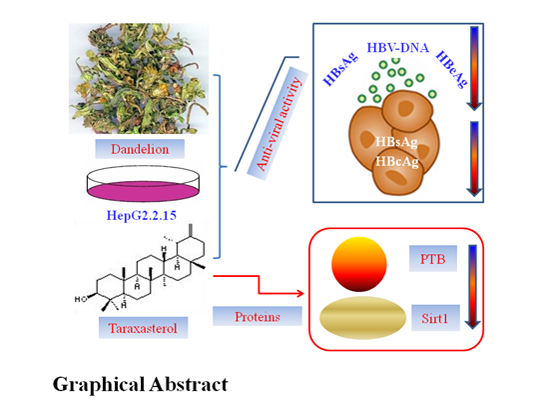
**Fig.S3** Supplementary analysis result of TLC for taraxasterol



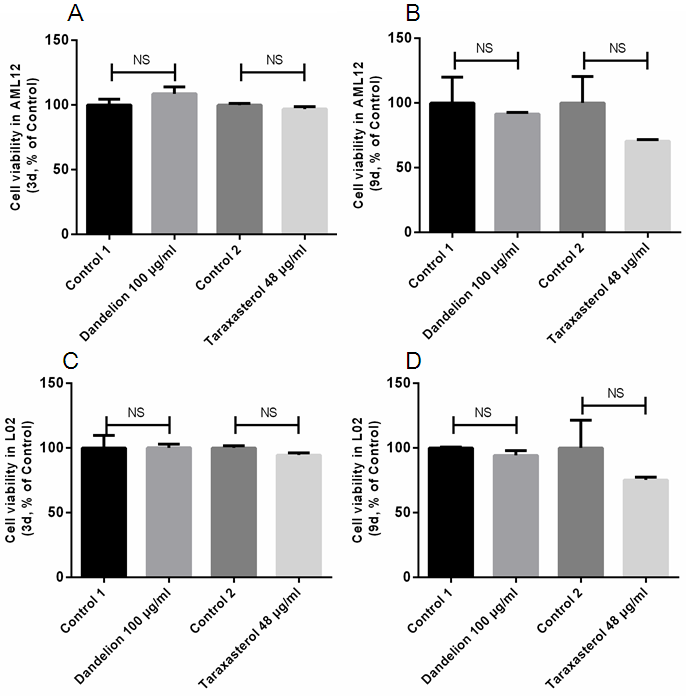
Thin layer chromatography (TLC): the resolving reagent of petroleum ether: ethyl acetate =7:1

The left side of figure is observed under 254 nm fluorescence; the right side of figure is observed under visible light. The results are shown as above.

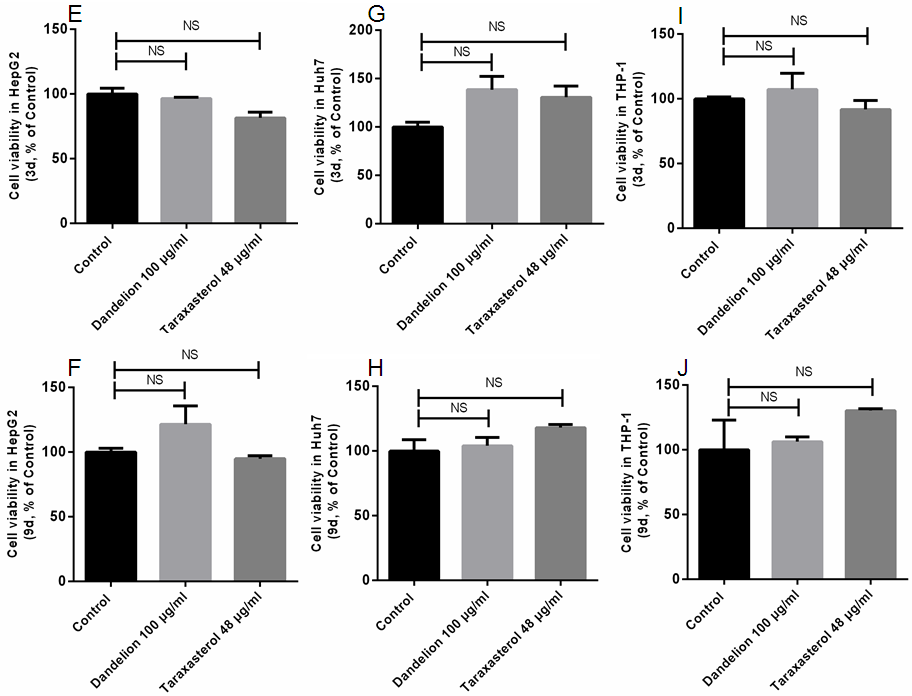
**Fig.S4** **Graphical Abstracts.** Dandelion extracts and taraxasterol inhibited HBV and the potential mechanism of taraxasterol may be related to the PTBP1 and SIRT1 expression.



**Fig.S5** **Cellular toxicity of dandelion and taraxasterol in normal liver cells (A-D) or other cell lines (hepamota cell lines E, F, G and H, monocytic cell line I and J).** After these cell lines were treated with dandelion and taraxasterol for 3 or 9 days, the cells were detected by CCK-8. The results represented the mean data from three independent experiments.



**Fig.S5-1** Cellular toxicity of dandelion and taraxasterol in normal liver cells



**Fig.S5-2** Cellular toxicity of dandelion and taraxasterol in other cell lines

**Fig.S6 The expression of IL-6 in the co-culture supernatant of HepG2.2.15 and THP-1.** After these cell lines were treated with 100μg/mL dandelion extraction or 24μg/mL taraxasterol for 48h, the IL-6 level was detected by ELISA. The results represented the mean data from three independent experiments.

D:\浙一期间\浙一投稿\0. 稿件\0. 浙一期间稿件\中药抗病毒\2分多.Infectious Agents and Cancer\2020-04-16. 一审意见及回复(投稿1个月),蒲公英HBV(补充数据)\补充数据\蒲公英数据\2020-5-15.ELISA样本和结果图片,IL-6,甾醇24和48h抗炎\2020-5-28. IL-6. 铺药24h, 第二天24h,药共48h. 用(Fig.S5)\Fig.S62020-5-28.IL-6,蒲公英JI甾醇,HepG2.2.15+THP-1(5组).tif

**Supplementary Methods**

**CCK-8 assay**

AML 12 is a mouse normal cell line. L02 is a human normal cell line. HepG2 and Huh7 are hepatoma cell lines. THP-1 is a monocytic cell line. The cell suspension was seeded in 96-well plates at a density of 5 x 103 per well and treated with different concentrations of dandelion (100 μg/mL) and taraxasterol (48 μg/mL) for 3 or 9 days. The cytotoxic effect of dandelion and taraxasterol was analyzed using Cell Counting Kit (CCK-8) (Invigentech, CA, USA) according to the manufacturer’s instructions. Absorbance at 450 nm was measured using a microplate reader (Bio-Rad, Hercules, CA, USA).

**IL-6 ELISA**

HepG2.2.15 or THP-1 cell suspension was seeded in 24-well plates at a density of 2 x 105 per well. The co-culture of HepG2.2.15 and THP-1 were treated with 100μg/mL dandelion extraction or 24μg/mL taraxasterol for 48h. The expression of IL-6 in the supernatant was detected using human IL-6 ELISA kit (Dakewe, Shenzhen, China) according to the manufacturer’s instructions. Absorbance at 450 nm was measured using a microplate reader (Bio-Rad, Hercules, CA, USA).