

Electronic Supplementary Information

Gold nanoparticles as potent anticancer agent: Green synthesis, characterization, and *in vitro* study

Abolghasem Abbasi Kajani,^a Abdol-Khalegh Bordbar,^{*b} Sayyed Hamid Zarkesh Esfahani,^c Amir Razmjou^d

^a Abolghasem Abbasi Kajani, Postdoctoral Fellow, Department of Chemistry, University of Isfahan, Isfahan, 81746-73441, Iran

^b Abdol-Khalegh Bordbar, Professor, Department of Chemistry, University of Isfahan, Isfahan, 81746-73441, Iran

^c Sayyed Hamid Zarkesh Esfahani, Associate Professor, Department of Biology, Faculty of Sciences, University of Isfahan, Isfahan, Iran

^d Amir Razmjou, Assistant Professor, Department of Biotechnology, Faculty of Advanced Sciences and Technologies, University of Isfahan, Isfahan, Iran

* Corresponding author: bordbar@chem.ui.ac.ir

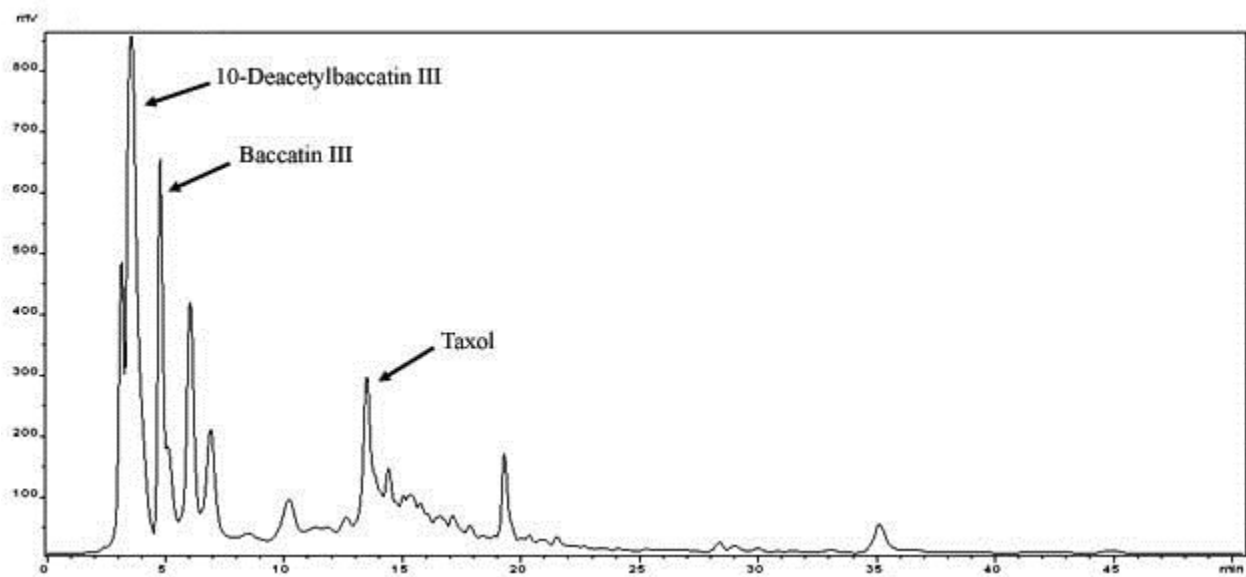
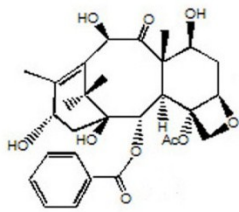
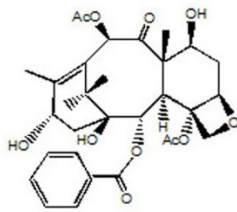


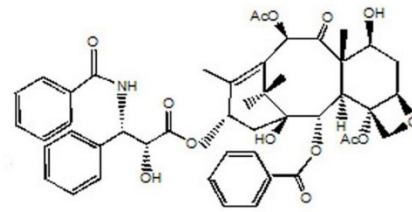
Figure S1. HPLC chromatogram of the ethanolic extract of *T. baccata* L.



10-deacetyl baccatin III



baccatin III



Taxol

Figure S2. Some of the main Taxane compounds and their functional groups.

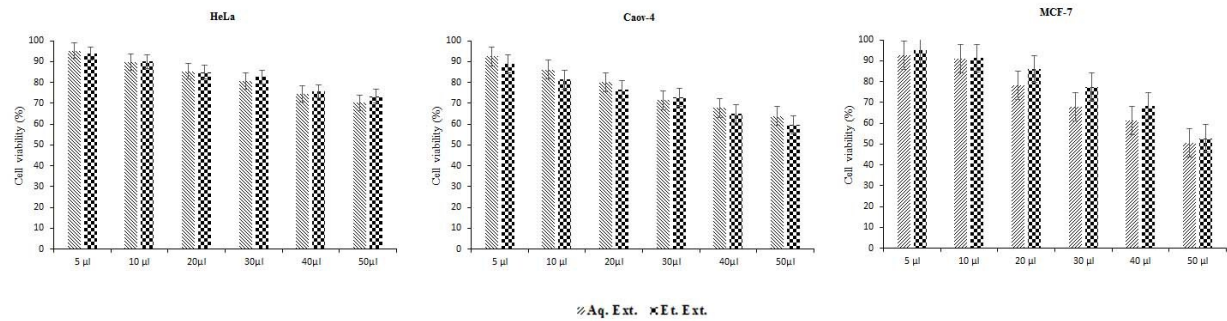


Figure S3. Viability percentage of the HeLa, Caov-4 and MCF-7 cancer cells after 72 h incubation with different concentrations of aqueous (Aq) and ethanolic (Et) extracts of *T. baccata* (5, 10, 20, 30, 40 and 50 µL mL⁻¹).