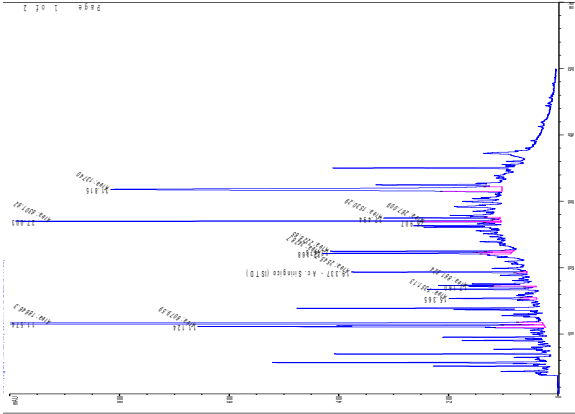


*Supplementary Material*

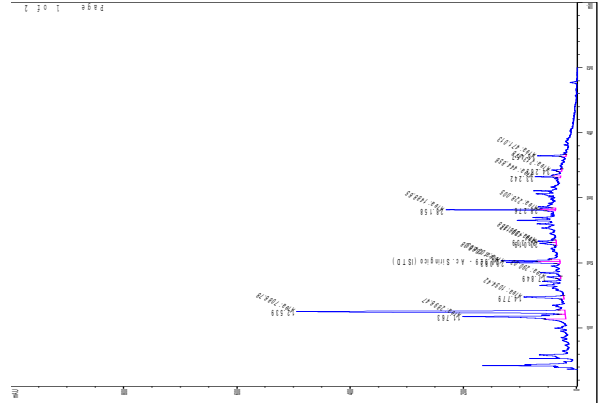
Supplementary Figure 1

| <b>PHENOLIC COMPOUND</b>                 | <b>A009 L3 (g/L)</b> | <b>A009 L4 (g/L)</b> |
|--|----------------------|----------------------|
| <b>Hydroxytyrosol</b>                    | 5.72                 | 5.50                 |
| <b>Hydroxytyrosol glucoside</b>          | 1.69                 | 1.91                 |
| <b>Verbascoside</b>                      | 1.32                 | 1.07                 |
| <b>6'-p-coumaroyl secologanoside</b>     | 0.40                 | 0.35                 |
| <b>b-hydroxyverbascoside isomer 1</b>    | 0.14                 | 0.23                 |
| <b>b-hydroxyverbascoside isomer 2</b>    | 0.17                 | 0.23                 |
| <b>Chlorogenic acid</b>                  | 0.10                 | 0.13                 |
| <b>Caffeoyl ester of secologanoside</b>  | 0.20                 | 0.23                 |
| <b>Decarboxymethyloleuropein aglycon</b> | 0.28                 | 0.16                 |
| <b>Oleuropein aglycon</b>                | 0.22                 | 0.21                 |

**L3**



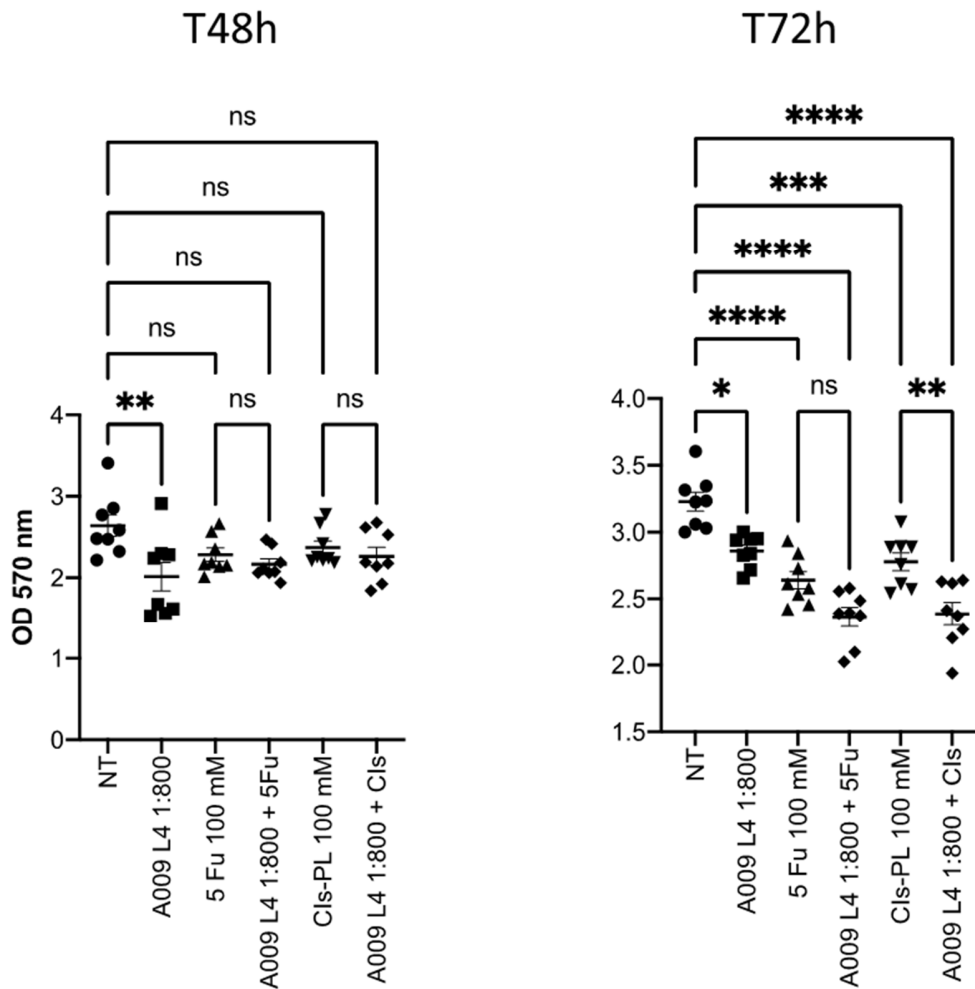
**L4**



**Supplementary Figure 1: Phenolic composition of A009 was obtained by HPLC-DADMS-MS.** Samples were analyzed by HPLC with UV-vis and MS detection. The identification of phenolic compounds from samples was carried out as previously reported by interpreting their mass spectra determined via LC-MS-MS and comparing to data reported in literature identified the compounds.

Supplementary Figures 2

DU145 L4



**Supplementary Figure 2: Activities of a second A009 batch on DU-145 PCa tumor cell line.** A009 (batch L4) decrease the proliferation rate of DU-145 PCa tumors line cells *in vitro* and has additive significantly effects on the cisplatin and trend towards 5-FU. Data are showed as mean ± SEM, one-way ANOVA, \*\*p<0.01, \*\*\*p<0.001, \*\*\*\*p<0.0001.