Supporting Information to:

**Growth Inhibition and Apoptosis Induction by Tanshinone IIA in Human Colon Adenocarcinoma Cells**

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A

a. Control

b. 1 μg/mL

c. 2.5 μg/mL
d. 5 μg/mL
Fig. 1S PI staining and flow cytometry analysis of tanshinone IIA-induced apoptosis in Colo-205 cells. Cultured cells (1 × 10⁶ cells per dish) were treated with different concentrations of tanshinone IIA (1 – 5 µg/mL) and stained with propidium iodide for DNA content for (A) 48 and (B) 72 hours. (C) The average subG1 population (%) of Colo-205 cells treated with tanshinone IIA at 1, 2.5 and 5 µg/mL. Values are expressed as mean±S.E.M. of four experiments.

* Significant difference at p < 0.05 vs. the respective groups without tanshinone IIA treatment.
Fig. 2S TUNEL assay of Colo-205 cells treated with tanshinone IIA. Cultured cells (1 × 10^5 cells per well) were treated with (A) vehicle and tanshinone IIA at the concentrations of (B) 1, (C) 2.5, (D) 5, and (E) 10 μg/mL for 24 hours. The number of TUNEL-positive cells was concentration-dependently increased by tanshinone IIA. The experiments were repeated six times with similar results.
Table 1S. Comparison of the inhibitory effects of tanshinone IIA on cell growth in Colo-205 cells and BALB3T3 cells.

<table>
<thead>
<tr>
<th>Tanshinone IIA (µg/mL)</th>
<th>1.0</th>
<th>2.5</th>
<th>5.0</th>
<th>7.5</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 h</td>
<td>Colo-205</td>
<td>98.4±0.7%</td>
<td>28.5±0.8%</td>
<td>19.7±0.5%</td>
<td>8.8±0.7%</td>
</tr>
<tr>
<td></td>
<td>BALB3T3</td>
<td>101.0±0.3%</td>
<td>98.8±0.3%*</td>
<td>64.1±0.4%*</td>
<td>52.0±0.3%*</td>
</tr>
<tr>
<td>48 h</td>
<td>Colo-205</td>
<td>97.3±1.4%</td>
<td>46.4±0.8%</td>
<td>37.9±0.8%</td>
<td>33.7±0.5%</td>
</tr>
<tr>
<td></td>
<td>BALB3T3</td>
<td>97.6±0.7%</td>
<td>82.0±0.3%*</td>
<td>75.5±0.4%*</td>
<td>60.6±0.4%*</td>
</tr>
<tr>
<td>72 h</td>
<td>Colo-205</td>
<td>60.8±0.7%</td>
<td>49.6±0.5%</td>
<td>34.2±0.4%</td>
<td>33.9±0.6%</td>
</tr>
<tr>
<td></td>
<td>BALB3T3</td>
<td>98.5±0.2%*</td>
<td>99.1±0.2%*</td>
<td>86.9±1.2%*</td>
<td>79.0±0.6%*</td>
</tr>
</tbody>
</table>

Colo-205 and BALB3T3 cells were treated with various concentrations of tanshinone IIA (1-10 µg/mL) for 24-72 hr. The cell growth after tanshinone IIA treatment was determined by the MTT reduction assay and expressed as percentage of the respective control group (without tanshinone IIA exposure), which is taken as 100%. Values are expressed as mean±S.E.M. Measurements were done in triplicate in 6 different cultures. * Significant difference at p<0.05 vs the respective group (Colo-205 cells) by two-way ANOVA with post hoc Newman-Keul multiple comparison test.