

**Table S1.** *In vitro* cytotoxic effect of TKGM complexed with PPT or LFA, in combination with GCV.

| GCV, mcM        | 2                            | 12,5 | 50         | 200 | 2   | 12,5       | 50 | 200 | 2          | 12,5       | 50 | 200 | 2          | 12,5 | 50 | 200 |
|-----------------|------------------------------|------|------------|-----|-----|------------|----|-----|------------|------------|----|-----|------------|------|----|-----|
|                 | Percentage of survived cells |      |            |     |     |            |    |     |            |            |    |     |            |      |    |     |
| Cell line       | S37                          |      |            |     | C26 |            |    |     | A431       |            |    |     | HT1080     |      |    |     |
| <b>TKGM-PPT</b> | 89                           | 72   | 34         | 7   | 62  | 37         | 26 | 7   | 97         | 90         | 72 | 47  | 97         | 87   | 69 | 53  |
| <b>TKGM-LFA</b> | <i>100</i>                   | 62   | 25         | 7   | 14  | 9          | 7  | 3   | 76         | 54         | 41 | 30  | 60         | 35   | 23 | 15  |
| <b>NT</b>       | <i>100</i>                   | 100  | <i>100</i> | 48  | 100 | <i>100</i> | 99 | 24  | <i>100</i> | <i>100</i> | 98 | 71  | <i>100</i> | 100  | 97 | 91  |

Mouse tumor cells S37 and C26 were transfected with TKmGM complexed with either PPT or LFA; human tumor cells A431 and HT1080 were transfected with TKhGM complexed with either PPT or LFA. NT – non-transfected cells. The transfected and control cells were incubated for 4 days with different concentrations of ganciclovir (GCV). The data are presented as MTS test results in percentage of survived cells as compared with the control (the number of cells survived in medium lacking GCV). The values over 100% (102-125%) are shown in italics. The spread of values was 0-4%.