

SUPPLEMENTARY

**INFLUENCE OF USNIC ACID DERIVATIVE (TYROSYL-DNA
PHOSPHODIESTERASE 1 INHIBITOR) ON TRANSPLANTED TUMORS *in vivo*
AS A MONOTHERAPY AND IN COMBINATION WITH OLAPARIB**

**T. E. Kornienko¹, A. L. Zakharenko¹, E. S. Ilina^{1,4}, A. A. Chepanova¹,
O. D. Zakharova¹, N. S. Dyrkheeva¹, N. A. Popova^{2,4}, V. P. Nikolin²,
A. S. Filimonov³, O. A. Luzina³, N. F. Salakhutdinov^{3,4}, O. I. Lavrik^{1,4*}**

¹*Institute of Chemical Biology and Fundamental Medicine, Siberian Branch of the
Russian Academy of Sciences, Novosibirsk, 630090 Russia*

²*Federal Research Centre Institute of Cytology and Genetics, Siberian Branch of the
Russian Academy of Sciences, Novosibirsk, 630090 Russia*

³*Vorozhtsov Novosibirsk Institute of Organic Chemistry, Siberian Branch of the Russian
Academy of Sciences, Novosibirsk, 630090 Russia*

⁴*Novosibirsk State University, Novosibirsk, 630090 Russia*

**e-mail: lavrik@niboch.nsc.ru*

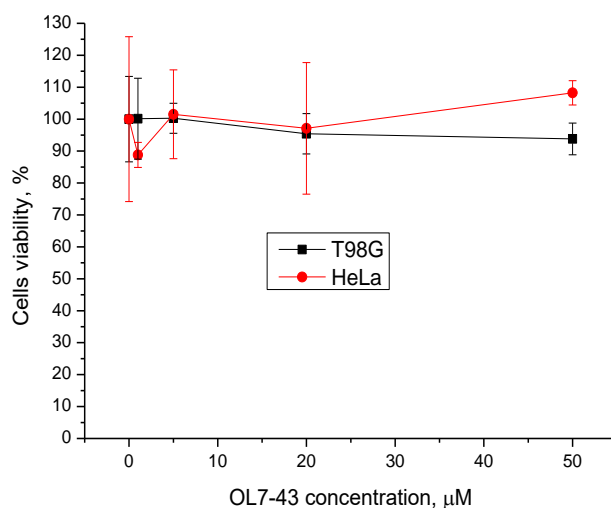


Fig. 1. Effect of OL7-43 on the survival of HeLa and T98G cells according to the EZ4U test

Table 1. Effect of the Tdp1 inhibitor **OL7-43** and its combination with olaparib on liver weight and index in mice with Krebs-2 ascitic carcinoma

| Group | Average liver weight, g | Average liver index, % |
|--|-------------------------|------------------------|
| Intact control | 1.1±0.2 | 7.1±0.8 |
| 4% DMSO + 10% Tween-80 and 15% DMSO+10% Tween-80 | 1.1±0.2 | 7.4±0.7 |
| Olaparib 25 mg/kg and 15% DMSO+10% Tween-80 | 1.1±0.2 | 6±1 |
| Olaparib 25 mg/kg+OL7-43 50 mg/kg | 1.3±0.3 | 7±1 |
| OL7-43 50 mg/kg and 4% DMSO + 10% Tween-80 | 1.3±0.4 | 7±2 |

Table 2. Effect of the Tdp1 inhibitor **OL7-43** and its combination with olaparib on liver and spleen weight and index in mice with Lewis lung carcinoma

| Group | Average liver weight, g | Average liver index, % | Average spleen weight, g | Average spleen index, % |
|------------------------------------|-------------------------|------------------------|--------------------------|-------------------------|
| Intact control | 1.13±0.07 | 5.2±0.2 | 0.24±0.03 | 1.1±0.1 |
| 15% DMSO+10% Tween-80 | 1.1±0.2 | 5.3±0.7 | 0.28±0.02 | 1.3±0.1 |
| Olaparib 25 mg/kg | 1.09±0.07 | 5.3±0.3 | 0.24±0.03 | 1.2±0.1 |
| Olaparib 25 mg/kg +OL7-43 50 mg/kg | 1.1±0.1 | 5.4±0.6 | 0.24±0.04 | 1.2±0.2 |
| OL7-43 50 mg/kg | 0.94±0.07 | 4.5±0.4 | 0.23±0.03 | 1.1±0.1 |