A Novel Resveratrol Based Tubulin Inhibitor Induces Mitotic Arrest and Activates Apoptosis in Cancer Cells

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Supplementary Materials

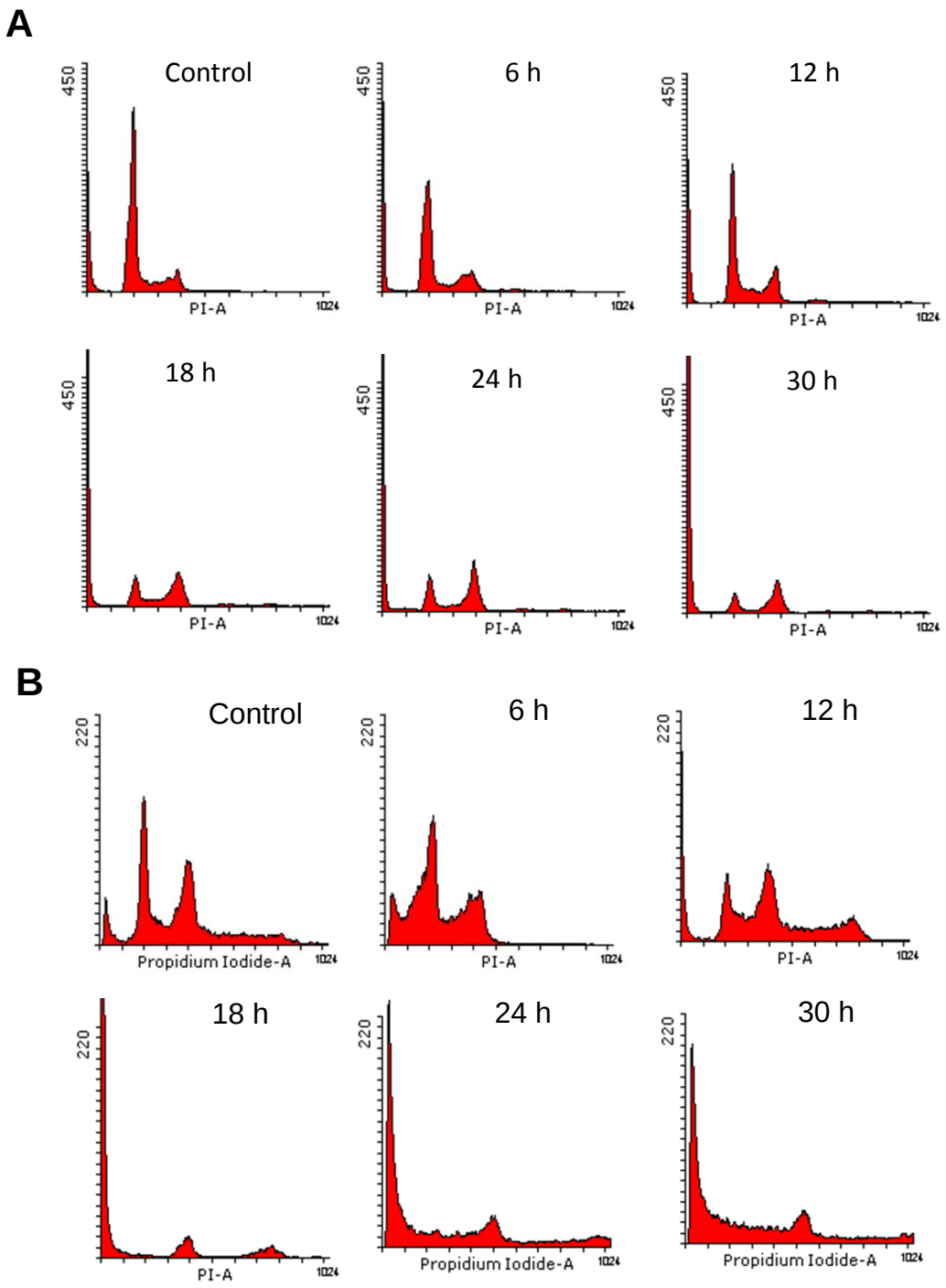
Supplementary Table 1. IC_{50} values of various cancer cell lines upon treatment with SS28. Values depicts the IC_{50} value based on trypan blue assay at 48 h.

Supplementary Figure 1. Evaluation of effect of SS28 on cell cycle progression. A. A549 cells were treated with SS28 (5 µM) for different time points (6, 12, 18, 24 and 30 h) and cell cycle distribution was analyzed by flow cytometry after staining the cells with PI. The concentration selected was based on the IC_{50} value. **B.** CEM cells were treated 2 µM of SS28 (6, 12, 18, 24 and 30 h) and cell cycle distribution was assessed by flow cytometry. In all panels DMSO treated cells served as vehicle control.

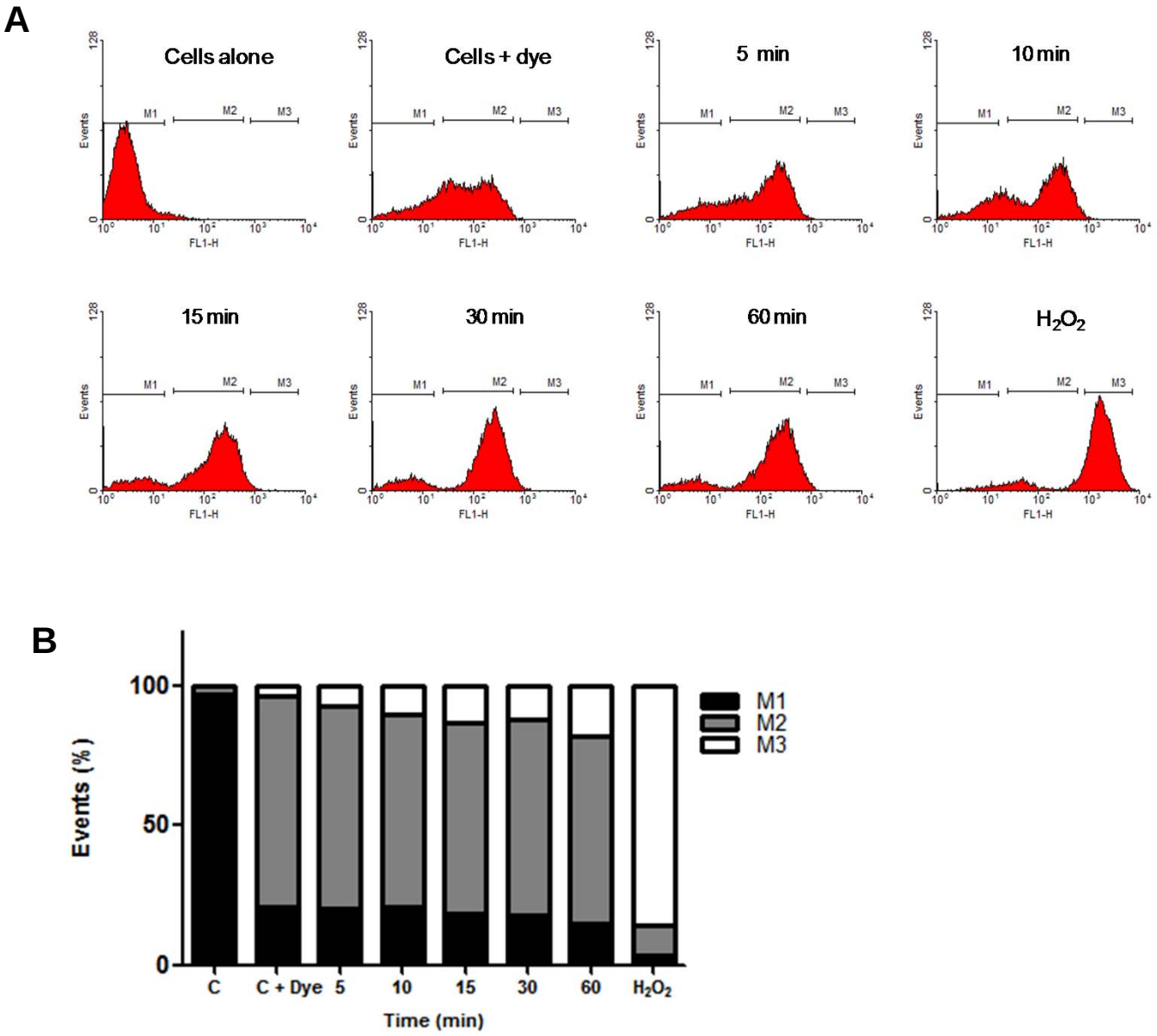
Supplementary Figure 2. Evaluation of intracellular ROS production following treatment with SS28. A. CEM cells treated with SS28 (5 µM) for different time points (5, 10, 15, 30, 60 min) and ROS generation was studied using flow cytometry analysis. H_2O_2 treated cells were used as positive control, while cells alone were used as negative control. DMSO treated cells were used as vehicle control. **B**. Histogram showing the ROS production is also presented.

Cell lines	IC_{50} (μM)
CEM	2.6
Reh	7.9
Molt4	5.1
SUDHL8	2.7
Nalm6	21
A549	5.2
293T	25.6
HeLa	32.4
PBMC	39.3
MEF	5.0

Supplementary Table 1



Supplementary Figure 1



Supplementary Figure 2