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**Interaction between various resistance modifiers and apoptosis inducer
12*H*-Benzo[*a*]phenothiazine**

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The effect of some resistance modifiers on apoptosis induction by a benzo[*a*]phenothiazine derivative was studied on the L5178Y mouse lymphoma cells and its multidrug resistant subline. For evaluation of apoptosis the cells were stained with FITC-labelled annexin V and propidium iodide and the results were analysed by flow cytometry. 12*H*-benzo[*a*]phenothiazine (**M1**) induced apoptosis both in the lymphoma cells and in the MDR cells. The apoptosis induction by **M1** was not affected significantly by post- or pre-treatment with resistance modifiers, while in the cells treated by verapamil before and after apoptosis induction with **M1**, the apoptosis was somewhat higher. The resistance modifier compounds alone also induced apoptosis and it was slightly higher in the parent cells than its MDR1/A gene-transformed subline.