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Bioorg Med Chem. 2009 Oct 1;17(19):6842-51. doi: 10.1016/j.bmc.2009.08.020. Epub 2009 Aug 15.

**New potent P-glycoprotein modulators with the cucurbitane scaffold and their synergistic interaction with doxorubicin on resistant cancer cells.**

Ramalhete C<sup>1</sup>, Molnár J, Mulhovo S, Rosário VE, Ferreira MJ.

Author information

**Abstract**  
The novel cucurbitacins, balsaminogenin A and B (1-2) and balsaminoside A (3) and the know cucurbitacin karavelagenin C (4), together with five new mono or diacylated derivatives (5-9) of karavelagenin C were evaluated for multidrug resistance reversing activity on human MDR1 gene transfected mouse lymphoma cells. Compounds 2-6 exhibited a strong activity compared with that of the positive control, verapamil. Structure-activity relationships are discussed. Moreover, in the checkerboard model of combination chemotherapy, the interaction between doxorubicin and compounds 2-5 synergistically enhanced the effect of the anticancer drug. Compounds 1-4 were isolated from the aerial parts of *Momordica balsamina* L. The structures of the compounds were established on the basis of spectroscopic methods including 2D NMR experiments (COSY, HMQC, HMBC and NOESY).

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