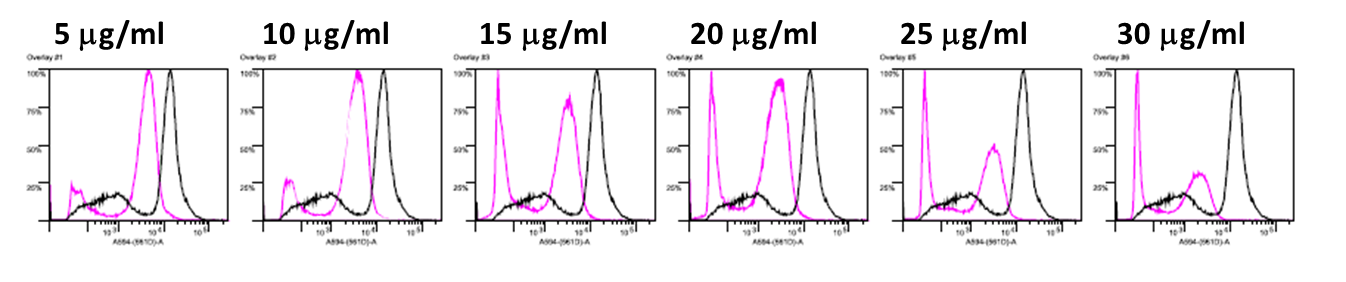
Effect of quambalarine B on Jurkat cell line - Quantitation of the intracellular MitoTracker® Red CMXRos signal

Biological activity of all isolated naphthoquinones was tested on suspension tumor-derived cell lines (REH, NALM 6 and Jurkat) using flow cytometry. Representative example of the FACS-based bioassay of the mitochondrial activity performed on Jurkat cell line is shown.

**Experimental procedure**

Tested cell types were cultivated in 96 well plates (Nunc, **Thermo Fisher Scientific**, Waltham, MA, USA) and treated with compounds dissolved in the DMSO (stock solution 10 mM) for various times and concentrations and measured using FACS LSR II (Becton Dickinson) for MitoTracker® Red CMXRos (Molecular Probes, Invitrogen, Carlsbad, CA, USA) signal.



**Figure S3.** Quantitation of the MitoTracker® Red CMXRos signal after 24h treatment of Jurkat cell line with various concentrations of quambalarine B (5-30g/ml). Fluorescence signal reflecting proton gradient presence in experimental conditions (red) is overlayed with the data acquired on the control cells (black line). Note the concentration-dependent drop in MitoTracker® Red CMXRos fluorescence intensity (logarithmic x-axis).