Supplementary Table S1. Parameters obtained from the fitting of the fluorescence data of partition assays of selected 2-(thio)oxothiazolidin-4-ones (LJ001 and LJ025) and oxazolidine dithiones (JL103, JL118 and JL122).

	LJ001		LJ025		JL103		JL118		JL122	
Lipid Mixture:	K _p x 10 ³	I_L/I_w	K _p x 10 ³	I_L/I_w	K _p x 10 ³	I_L/I_w	K _p x 10 ³	I _L / I _w	K _p x 10 ³	I _L / I _w
POPC	108	2.29	23.8	2.79	0.58	14.78	2.70	233	1.13	143.8
	± 33.5	± 0.045	± 3.01	± 0.052	± 0.059	± 0.652	± 0.136	± 3.0	± 0.131	± 5.4
HIV-like mixture	5.19	2.41	12.61	3.60	0.31	68.29	2.01	488	0.267	613.7
	± 0.81	± 0.095	± 3. 52	± 0.198	± 0.077	± 7.624	± 0.310	± 18.5	± 0.021	± 27.8

All measures were made at least in triplicate (see materials and methods), Mean \pm SEM is shown. For POPC, a lipid with packing density and fluidity properties similar to mammalian cell membranes, Kp values of 108,000 and 23,800 were obtained for LJ001 and LJ025, respectively. When HIV-mimicking membranes were tested, LJ025 exhibited apparently higher Kp values than LJ001.

Results indicate that the Kp values for the JL compounds (580, 2,700 and 1,130 for JL103, JL118 and JL122, respectively) with POPC are about 1-2 orders of magnitude less than that for LJ001 (108,000) and LJ025 (23,800), but still remain high. The Kp values vary less for HIV-mimicking membranes. Despite the lower partitioning of JL compounds into membranes (compared to LJ001), JL103, JL118 and JL122 are much more potent antiviral (IC₅₀ < 10-100 fold of LJ001). This indicates that differences in IC₅₀s cannot be due to differential partitioning, and reinforces our statement that the increased antiviral activity of the JL compounds is due to their increased potency as photosensitizers.