

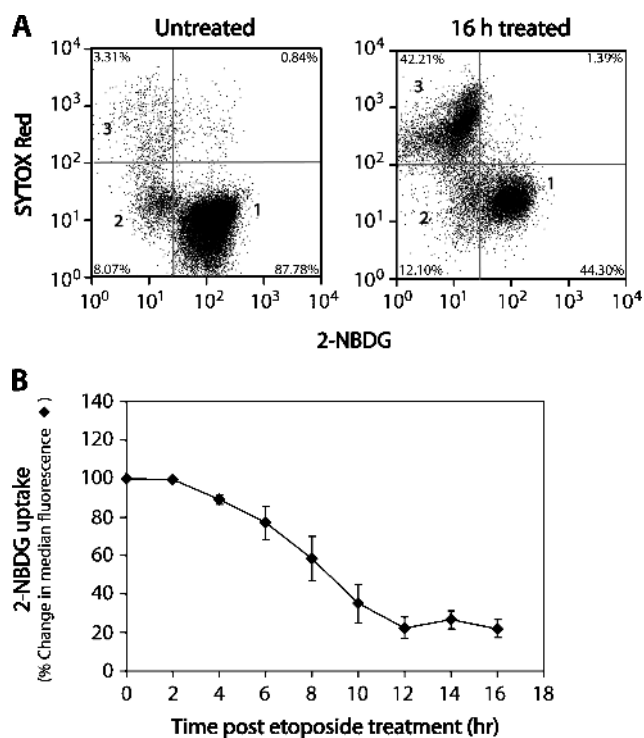
**Table W1.** Fitted Rate Constants for Untreated and Etoposide-Treated Cells.

	$k_L$ ( $\times 10^{-3} \text{ s}^{-1}$ )	$k_P$ ( $\times 10^{-3} \text{ s}^{-1}$ )	$\rho_L = \rho_P$ ( $\text{s}^{-1}$ )
Untreated ( $n = 4$ )	$8 \pm 1$	$0.36 \pm 0.03$	$0.027 \pm 0.001$
2 h ( $n = 5$ )	$20 \pm 4$	$0.30 \pm 0.02$	$0.026 \pm 0.001$
4 h ( $n = 6$ )	$13 \pm 2$	$0.35 \pm 0.02$	$0.027 \pm 0.000$
6 h ( $n = 6$ )	$21 \pm 2^*$	$0.31 \pm 0.03$	$0.024 \pm 0.002$
8 h ( $n = 6$ )	$18 \pm 2$	$0.33 \pm 0.03$	$0.025 \pm 0.001$
10 h ( $n = 5$ )	$18 \pm 3$	$0.34 \pm 0.04$	$0.025 \pm 0.002$
12 h ( $n = 4$ )	$8 \pm 1$	$0.30 \pm 0.03$	$0.023 \pm 0.002$
14 h ( $n = 4$ )	$7 \pm 2$	$0.21 \pm 0.01^*$	$0.024 \pm 0.001$
16 h ( $n = 4$ )	$6 \pm 2$	$0.06 \pm 0.01^\ddagger$	$0.027 \pm 0.001$

Values are presented as mean  $\pm$  SEM.

\* $P < .05$ , ANOVA followed by Dunnett's *post hoc* test.

† $P < .01$ , ANOVA followed by Dunnett's *post hoc* test.



**Figure W1.** Flow cytometric analysis of 2-NBDG uptake in etoposide-treated EL-4 cells. (A) Dual-plot histogram of 2-NBDG uptake and SYTOX Red staining in 16-hour treated and untreated cells. Cells were incubated with 2-NBDG ( $100 \mu\text{M}$ ) for 60 minutes at  $37^\circ\text{C}$  before the determination of uptake by flow cytometry (2-NBDG  $\lambda\text{Ex}/\text{Em} = 465/540 \text{ nm}$ ; SYTOX Red  $\lambda\text{Ex}/\text{Em} = 640/658$ ). Population 1 represents viable cells, population 2 represents apoptotic cells, and population 3 represents necrotic cells. (B) Quantitation of 2-NBDG uptake after treatment. 2-NBDG uptake was expressed as the percentage change in median fluorescence. Mean values ( $n = 4$ ) and SEM are shown.

**Table W2.** Fitted Rate Constants for Untreated and Etoposide Treated Tumors.

	$k_L$ ( $\text{s}^{-1}$ )	$k_P$ ( $\text{s}^{-1}$ )	$\rho_L = \rho_P$ ( $\text{s}^{-1}$ )
Untreated ( $n = 5$ )	$0.018 \pm 0.002$	$0.056 \pm 0.005$	$0.030 \pm 0.001$ ( $34 \pm 1 \text{ s}$ )
Treated 16 h ( $n = 5$ )	$0.023 \pm 0.001$	$0.063 \pm 0.006$	$0.031 \pm 0.001$ ( $32 \pm 1 \text{ s}$ )
Treated 24 h ( $n = 6$ )	$0.022 \pm 0.004$	$0.034 \pm 0.006^*$ ( $-38\%$ )	$0.032 \pm 0.001$ ( $32 \pm 2 \text{ s}$ )

Values are presented as mean  $\pm$  SEM.

\* $P < .05$ , ANOVA followed by Dunnett's *post hoc* test.