

**Table 2. Mitotic arrest and death kinetics for cells treated with 500nM EMD534085.**

A. Mean arrest duration in hours  $\pm$  SD for all cells that arrested. B. mitotic arrest duration for cells that progressed through different paths. \* for HL60, n = 5 cells. C. Death kinetics for cells that arrest, slip and die. Mean times are shown for mitotic entry to death and for slip to death.

<b>A. Mitotic arrest, all cells (h)</b>			
HL60	4.6 $\pm$ 1.4		
HeLa-H2bGFP	31.7 $\pm$ 10.0		
HT29	30.4 $\pm$ 11.6		
U-2 OS	12.9 $\pm$ 4.5		
MCF7	12.0 $\pm$ 6.4		
N/TERT-1	8.5 $\pm$ 2.1		
<b>B. Analysis of mitotic arrest (h)</b>	arrest, slip, 4N arrest	arrest, slip, die	arrest, die from arrest
HL60	-	4.6 $\pm$ 0.6 *	4.6 $\pm$ 1.4
HeLa-H2bGFP (EMD534085)	33.6 $\pm$ 10.2	32.4 $\pm$ 8.6	26.0 $\pm$ 12.5
HeLa-H2bGFP (stlc)	33.0 $\pm$ 9.6	31.8 $\pm$ 7.1	22.8 $\pm$ 10.9
HT29	35.4 $\pm$ 10.0	30.9 $\pm$ 10.1	23.6 $\pm$ 10.7
MCF7	11.6 $\pm$ 5.6	17.2 $\pm$ 6.5	20.9 $\pm$ 6.1
U-2 OS	13.1 $\pm$ 4.7	13.0 $\pm$ 3.5	14.9 $\pm$ 7.7
N/TERT-1	8.3 $\pm$ 2.0	10.1 $\pm$ 2.1	9.3 $\pm$ 2.2
<b>C. Analysis of death timing (h)</b>	mitotic entry to death	slip to death	
HeLa-H2bGFP (EMD534085)	42.2 $\pm$ 9.7	9.8 $\pm$ 5.7	
HeLa-H2bGFP (stlc)	42.5 $\pm$ 7.9	11.1 $\pm$ 5.8	
HT29	53.8 $\pm$ 12.1	22.3 $\pm$ 11.9	
MCF7	33.3 $\pm$ 16.9	16.3 $\pm$ 19.7	
U-2 OS	22.9 $\pm$ 7.7	10.8 $\pm$ 5.4	
N/TERT-1	13.1 $\pm$ 4.0	3.0 $\pm$ 1.3	