

Cell Type	Telomere Length (kb)	6-thio-dG ( $\mu\text{M}$ )	6-thioguanine ( $\mu\text{M}$ )
BJ	6 $\pm$ 0.35	>100	>100
HCEC1	7.5 $\pm$ 0.5	>100	>100
HCT116	7.7 $\pm$ 0.66	1.1	1.2
A549	5.1 $\pm$ 2.85	2.4	2.8
H2882	3.4 $\pm$ 0.08	0.8	0.7
HCC2429	2 $\pm$ 0.1	0.7	0.7
HCC827	1.6 $\pm$ 0.5	1.1	1.2
HCC15	3.1 $\pm$ 0.36	0.85	1.0
H2087	2.4 $\pm$ 0.004	0.9	0.9
HCC4017	3.4 $\pm$ 0.58	0.7	0.9
HCC515	3 $\pm$ 0.39	0.7	0.9
H2009	8.4 $\pm$ 0.54	2.9	3.5

**Supplemental Table 1.** Average telomere length (kb) of cell lines and comparison of 6-thio-dG and 6-thioguanine on cell viability *in vitro* using GLO-titer assay with IC50 levels ( $\mu\text{M}$ ).