

**Table S1.** Quantification analysis of the tail parameters of DNA damage using Comet assay in EA.hy926 cells, treated with 10 µg/mL and 40 µg/mL of DHOLE in the absence or presence of 250 µM H<sub>2</sub>O<sub>2</sub>. Data are presented as mean ± SEM, from 100 randomly selected cells/sample.

Treatments	Tail moment	Fold change of the Averages	Tail length	Fold change	%DNA tail	Fold change
control	0.42 ± 0.11	1.00	9.5 ± 1.17	1.00	1.58 ± 0.28	1.00
H <sub>2</sub> O <sub>2</sub>	12.63 ± 1.5	30.07	62.05 ± 4.8	6.5	11.8 ± 1.2	7.47
DHOLE 10 µg/mL	0.042 ± 0.01	0.1	6.14 ± 0.52	0.65	4.72 ± 1.3	2.99
DHOLE (10 µg/mL) + H <sub>2</sub> O <sub>2</sub>	0.77 ± 0.3	1.8	11.43 ± 2.0	1.2	6.42 ± 1.43	4.06
DHOLE 40 µg/mL	0.42 ± 0.2	1.00	11.15 ± 1.75	1.17	0.27 ± 0.1	0.17
DHOLE 40 µg/mL + H <sub>2</sub> O <sub>2</sub>	3.2 ± 1.77	7.6	19.57 ± 3.32	2.06	3.5 ± 0.95	2.21

DHOLE: Direct Hydrolyzed-Olive Leaf Extract