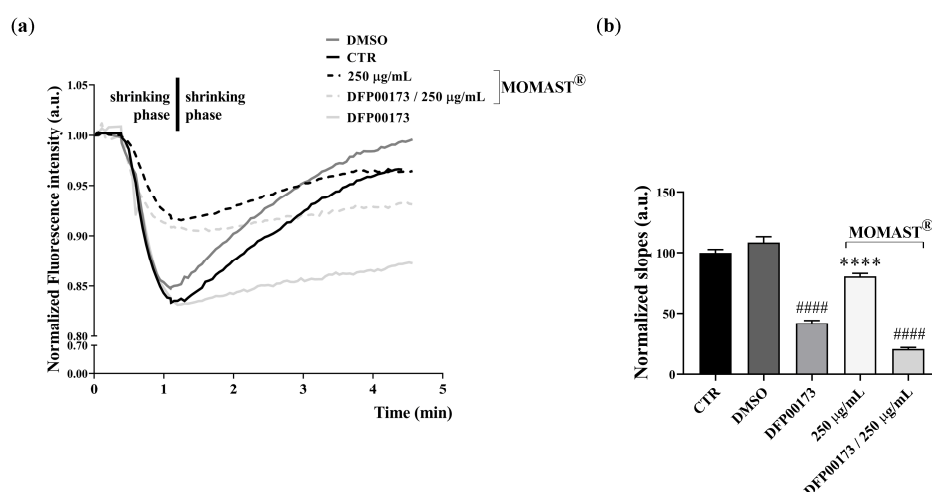


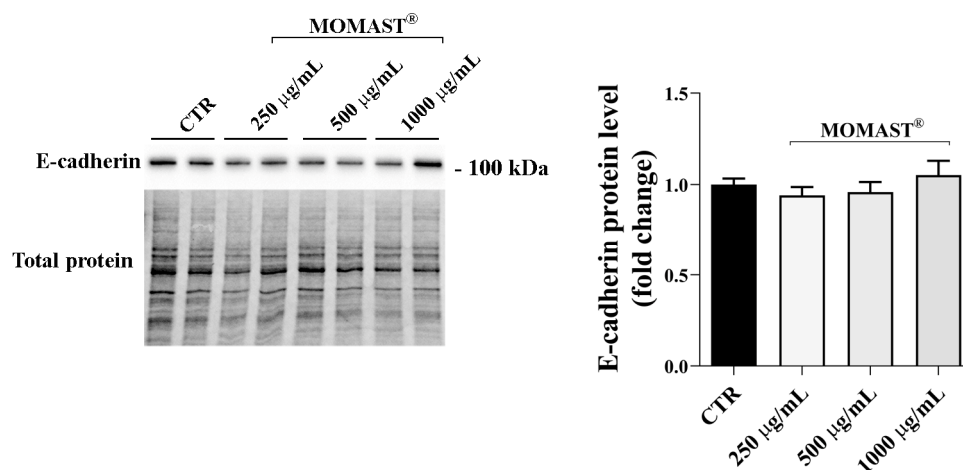


**Table S1. ROS content in HCT8 cells exposed to MOMAST®.** The table resumes the ROS% content measurements reported as means  $\pm$  Standard Error Means (S.E.M.) analyzed by one-way ANOVA followed by Dunnett's Multiple Comparison test (\*\*\*\*  $p < 0.0001$  vs CTR; \*\*  $p < 0.01$  vs tBHP; \*\*\*  $p < 0.001$  vs tBHP; \*\*\*\*  $p < 0.0001$  vs tBHP).

|                                      | mean $\pm$ S.E.M.    |
|--------------------------------------|----------------------|
| CTR                                  | 1,00 $\pm$ 0,08      |
| tBHP                                 | 13,58 $\pm$ 1,83**** |
| MOMAST® 50 $\mu\text{g/mL}$          | 1,43 $\pm$ 0,12      |
| MOMAST® 100 $\mu\text{g/mL}$         | 1,34 $\pm$ 0,21      |
| MOMAST® 250 $\mu\text{g/mL}$         | 1,13 $\pm$ 0,09      |
| MOMAST® 500 $\mu\text{g/mL}$         | 1,14 $\pm$ 0,12      |
| MOMAST® 1000 $\mu\text{g/mL}$        | 1,03 $\pm$ 0,07      |
| MOMAST® 50 $\mu\text{g/mL}$ + tBHP   | 10,96 $\pm$ 0,88     |
| MOMAST® 100 $\mu\text{g/mL}$ + tBHP  | 8,84 $\pm$ 1,05***   |
| MOMAST® 250 $\mu\text{g/mL}$ + tBHP  | 9,64 $\pm$ 0,97**    |
| MOMAST® 500 $\mu\text{g/mL}$ + tBHP  | 9,47 $\pm$ 0,96**    |
| MOMAST® 1000 $\mu\text{g/mL}$ + tBHP | 7,44 $\pm$ 0,68****  |



**Figure S1. Effect of MOMAST® on glycerol permeability.** Osmotically induced volume changes were recorded by the calcein-quenching method in HCT8 cells treated with MOMAST® compared to the control condition (untreated). (a) Representative time courses of cell shrinking (water exit) followed by cell swelling indicative of the osmotic influx of water promoted by glycerol entry along its gradient ( $\Delta$  100 mOsm/L). (b) Histogram showing the means  $\pm$  Standard Error Means (S.E.M.) values of the cell swelling time constants (slope) reflecting glycerol entry into the cells. Data are obtained from 91 different measurements of 3 independent experiments. A one-way ANOVA and Dunnett's Multiple Comparison test were performed (\*\*\*\*  $p < 0.0001$  vs CTR; ####  $p < 0.0001$  vs DMSO).



**Figure S2. Effect of MOMAST® on EMT markers expression in HCT8 cells.** Treatments with MOMAST® at increasing concentrations did not alter the E-cadherin adhesion protein expression. Data are shown as means  $\pm$  Standard Error Means (S.E.M.) of 4 independent experiments and analyzed by one-way ANOVA followed by Dunnett's multiple comparisons test.