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α -lipoic acid ameliorates the intestinal epithelial monolayer damage under heat stress conditions.

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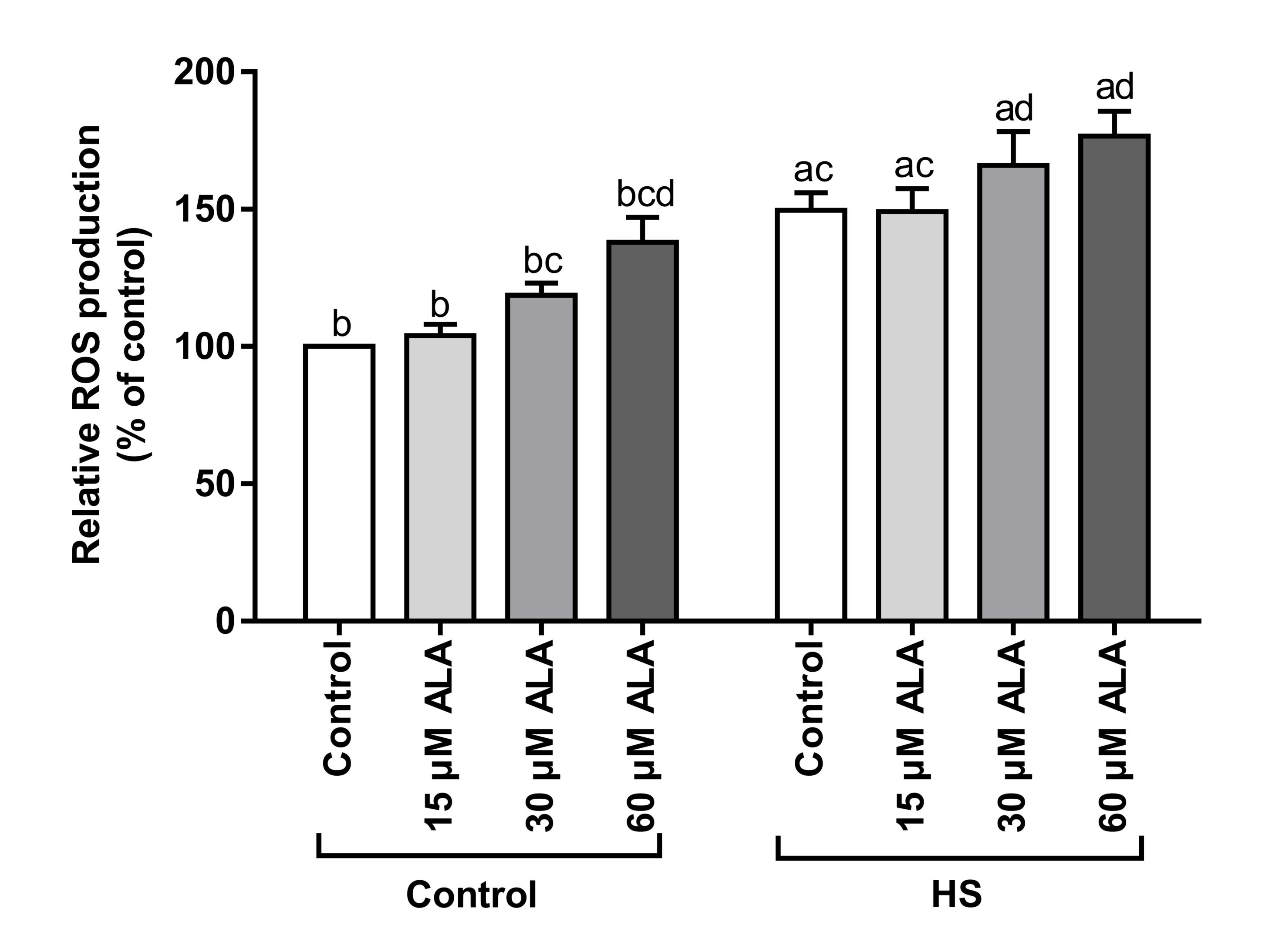
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Supplementary Figure 3

HS increases ROS production. Caco-2 cells grown on 96-well plate (17 days) were pretreated with different ALA concentrations for 24h. After washing with pre-warmed PBS, cells were incubated with DMEM supplemented with 10 μ M DMSO-dissolved H2DCFDA (Life Technologies, NY, USA) for 1h. Thereafter, cells were washed, incubated with ALA and exposed to 37°C or 42°C for 6h. Relative ROS production was quantified immediately before HS exposure and 6h after HS by a fluorometer (FLUOstar OPTIMA, Offenburg, Germany) at excitation and emission wavelengths of 490 nm and 525 nm). Results are expressed as ROS production normalized with initial ROS values

relative to unstimulated cells. Data are expressed as mean ± SEM of three independent experiments. Different lower-case denote significant differences among groups.