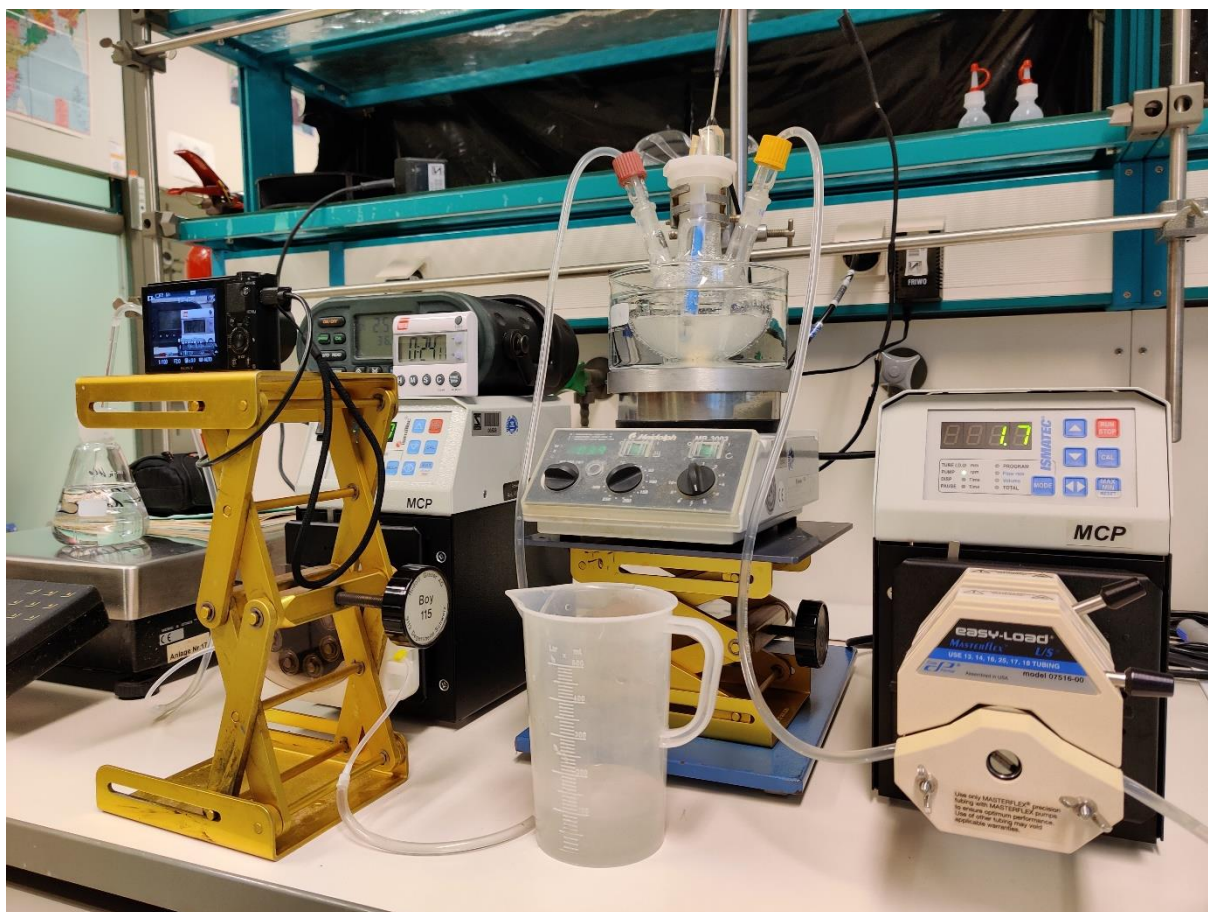


A combination of carbonates and *Opuntia ficus-indica* extract protects esophageal cells against simulated acidic and non-acidic reflux in vitro

Supplementary Figure S1

Martin D. Lehner*, Ulrike Scheyhing, Jens Elsässer

Preclinical R&D, Dr. Willmar Schwabe GmbH & Co. KG, Karlsruhe, Germany



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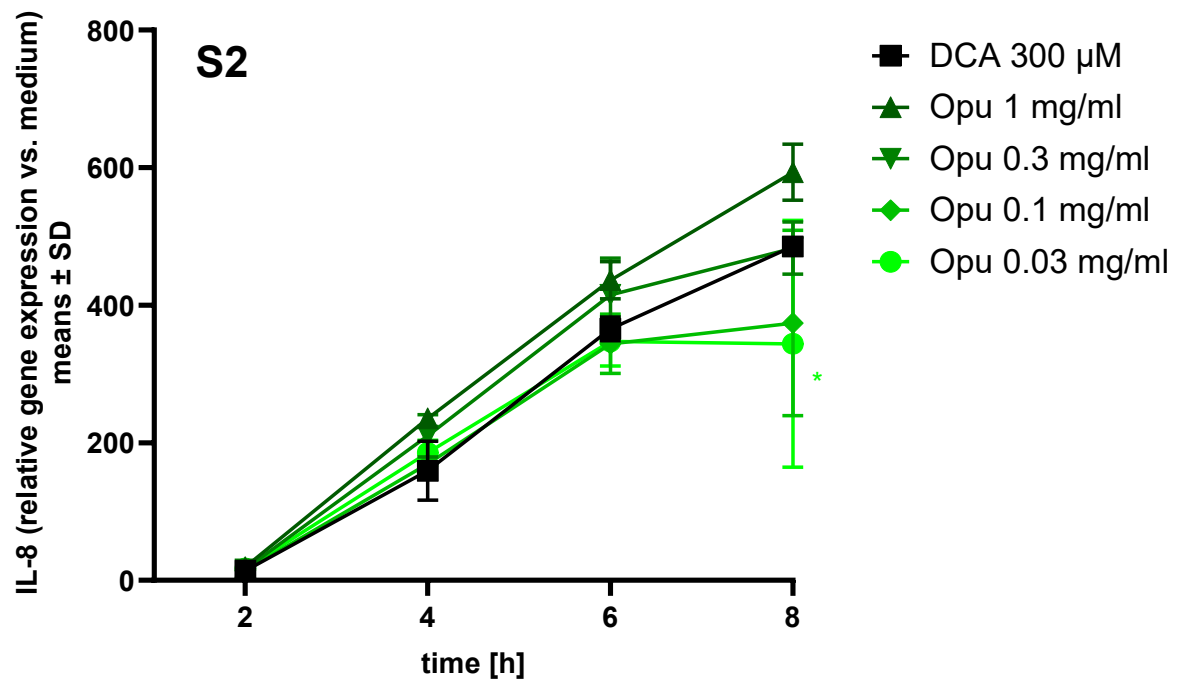
Experimental setup for the determination of the neutralization kinetics.

From left to right: Camera for time lapse photography of the pH values on a platform. pH-meter and stopwatch on top of the peristaltic pump adding the HCl solution. Three-neck round-bottom flask as artificial stomach, tempered and stirred by the magnetic stirrer below. The pH electrode is dipped in the solution through the middle neck, while adding and draining of the solution is facilitated through the left and right neck, respectively. Additional peristaltic pump on the right for draining the solution.

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Martin D. Lehner*, Ulrike Scheyhing, Jens Elsässer, Žarko Kulić

Preclinical R&D, Dr. Willmar Schwabe GmbH & Co. KG, Karlsruhe, Germany



Supplementary Figure S2: *Opuntia* extract does not attenuate DCA induced IL-8 mRNA induction upon continuous prolonged exposure to DCA

Pretreatment of Colo 680N with *Opuntia* extract prior to constant exposure to DCA 300 μ M for 2h-8h without wash-out did not consistently attenuate the DCA induced increase in IL-8 mRNA. Means $\pm$ SD of 3 technical replicates * $p < 0.05$ assessed by Two-Way ANOVA, followed by Dunnett's test vs. DCA.