**Figure S1.** Relative percentage of carbohydrates content and fructans profiles obtained by HPAEC-PAD. A) Agavins from *Agave tequilana* Weber Blue variety of 4-year-old plants. B) Inulin (oligofructose) from *Cichorium intybus*. Digestible carbohydrates correspond to glucose, fructose and sucrose.
Figure S2. Changes on body weight along the experimental trial. A) Mice fed with a standard (ST) or high fat (HF) diet for 5 weeks. B) Diet shift of the overweight mice to standard diet (HF_ST) and standard diet added with agavins (HF_ST+A) or inulin (HF_ST+O) for 5 more weeks. All data are presented as mean ± SEM. The diet-time interactions were significant for body weight changes (P < 0.0001) with repeated measures Two-way ANOVA. At specific time points, body weight changes were significantly different between the groups: *P < 0.05, **P < 0.001 and ***P<0.0001, Bonferroni’s multiple comparison test.