File S3 Investigation of identified inhibitors on hTAS2R16.

To investigate whether the hTAS2R39 inhibitors 6,3'-dimethoxyflavanone (3), 4'fluoro-6-methoxyflavanone (6), and 6-methoxyflavanone (11) were able to inhibit a bitter receptor not known for flavonoid activation, hTAS2R16 was selected for inhibition experiments. Measuring dose-response curves of the hTAS2R16 agonist salicin under the conditions used in this study revealed an EC₈₀ concentration of 10 mM salicin on hTAS2R16. The results in **Figure S3** show that no inhibition of hTAS2R16 occurred.



Figure S3. Inhibition of response of 10 mM salicin (---) on hTAS2R16 (induced (\bullet), non-induced (\circ)) by 4'-fluoro-6-methoxyflavanone (6) after simultaneous addition (A) and stepwise addition (B), by 6,3'-dimethoxyflavanone (3) after simultaneous addition (C) and stepwise addition (D), and by 6-methoxyflavanone (11) after simultaneous addition (E) and stepwise addition (F).