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751	Supplemental Figure 1. Structures are shown for (A) cromolyn (Crom), (B) flavone
752	backbone, (C) luteolin, (lut) (D) 3',4',5,7-tetramethoxyluteolin (methlut).

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754 Supplemental Figure 2. Purity of methlut. Analysis was done by mass spectrometry as
755 detailed in the Methods.

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Supplemental Figure 3. Cromolyn loses its inhibitory effect on LAD2 cells degranulation if used as pretreatment. MC were pre-incubated with cromolyn (100 μ M) for 30 min before stimulation with either SP (2 μM) or anti-IgE (10 μg/mL) for an additional 30 min. (A) β-hex release and (B) histamine release. NS= No statistical significance.

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Supplemental Figure 4. Methlut and lut inhibit intracellular calcium elevation. LAD2 cells were loaded with Fura-2 AM (30 nM, 20 min) and then pre-incubated with lut or methlut (10 and 50 μ M, 30 min). Immediately after stimulation with SP (2 μ M), fura-2 fluorescence was monitored at an excitation wavelength of 340 nm and 380 nm and emission wavelength of 510 nm. Control cells were treated with 0.1% DMSO. The curve shown is representative of five experiments of similar results.

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770 Supplemental Figure 5. Lut and methlut do not affect intracellular ATP levels. After

incubation with lut (A) or methlut (B) (10-100 μ M, up to 24 h), 1 × 10⁶ LAD2 cells were

172 lysed and intracellular ATP contents were determined.



3',4',5,7-Tetramethoxyluteolin (Methlut)

Figure 1. Supplemental



Figure 2. Supplemental





Figure 3. Supplemental



Figure 4. Supplemental



Figure 5. Supplemental