Supporting Information

Effects of *Cudrania tricuspidata* Fruit Extract and Its Active Compound, 5,7,3',4'-Tetrahydroxy-6,8-diprenylisoflavone, on the High-Affinity IgE Receptor-Mediated Activation of Syk in Mast Cells

Taehun Lee,[†] Jaeyoung Kwon,[§] Dongho Lee,^{*,§} and Woongchon Mar^{*,†}

 [†]Natural Products Research Institute, College of Pharmacy, Seoul National University, Seoul 151-742, Republic of Korea
[§]Department of Biosystems and Biotechnology, Korea University, Seoul 136-713, Republic of Korea

Corresponding authors

*(W.M.) Phone: +82-2-880-2473. Fax: +82-2-888-9122. E-mail: mars@snu.ac.kr

*(D.L.) Phone: +82-2-3290-3017. Fax: +82-2-953-0737. E-mail: dongholee@korea.ac.kr

Figure S1.

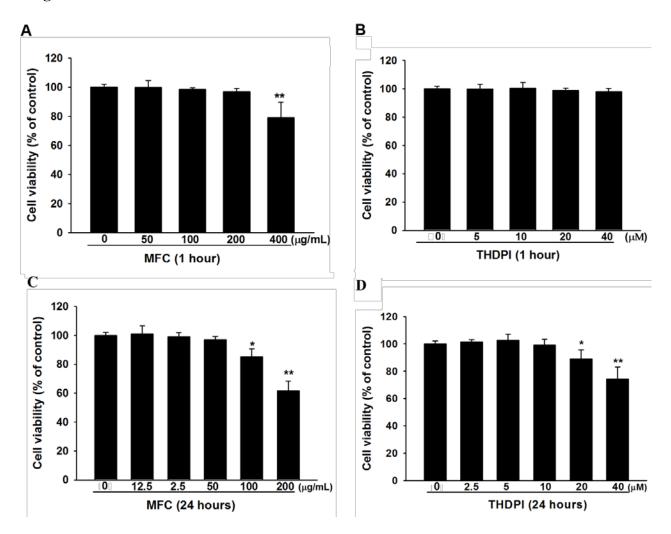


Figure S1. Cytotoxic effects of MFC and THDPI isolated on RBL-2H3 cells. RBL-2H3 cells were treated with various concentrations of MFC and THDPI for 1 h or 24 h, and cell viability was determined by MTT assay. Data represent the mean \pm S.D. of three independent experiments, *p < 0.05, **p < 0.01, compared with non-MFC or THDPI-treated cells.

Measurement of cytotoxic effect

MTT (3-(4,5-<u>Dimethylthiazol</u>-2-yl)-2,5-di<u>phenyl</u>tetrazolium bromide) assay was conducted to examine cell viability. RBL-2H3 cells (1 x 10^5 cells/100 µL/well) were cultured in 96-well plates for 24 h at 37°C. The cells were treated with various concentrations of MFC or THDPI for 1 h or 24 h and medium was replaced with MTT dissolved in phenol-red free medium (250 µg/mL) and incubated for 4 h at 37°C. The medium was carefully discarded and formazan was resuspended in 200 µL of dimethyl sulfoxide (DMSO). The absorbance was measured at 595 nm using a microplate reader. Values measured non-MFC or THDPI-treated cells were considered to represent 100% viability.

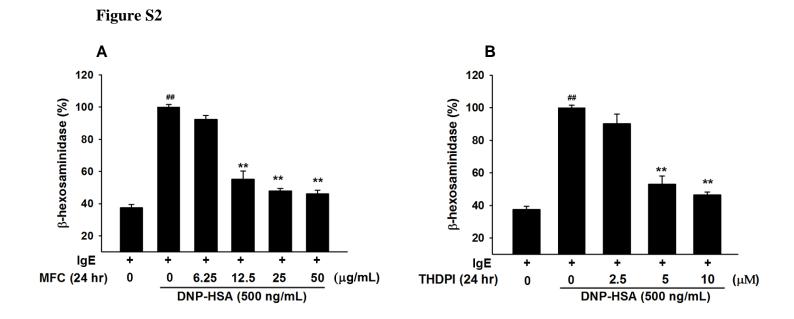


Figure S2. Effect of MFC and THDPI on the mast cell degranulation in RBL-2H3 cells. Anti-DNP IgE-sensitized cells were treated with various concentrations of MFC (A) and THDPI (B) for 24 h followed by antigen stimulation (DNP-HSA) for an additional 1 h. The release of β -hexosaminidase from cells treated with IgE/DNP-HSA was considered to represent 100% degranulation. Data represent the mean \pm SD of three independent experiments, ^{##}p < 0.01, compared with IgE-sensitized cells without DNP-HSA; ^{**}p < 0.01, compared with IgE/DNP-HSA-treated cells.