Supplementary Fig. 5. Effects of englerin A (EA) and cesium on TRPC5\textsuperscript{WT} and TRPC5 mutants. (A) A representative full current trace of TRPC5\textsuperscript{WT} induced by EA (top) and the I-V relationship of current increases by EA (bottom). The a, b, c, d indicates the point at which I-V relationship was obtained. After establishing the whole-cell configuration, the external solution was changed from NT to Cs\textsuperscript{+}-rich solution for recording TRPC5 current in HEK293 cells. At the steady-state of Cs\textsuperscript{+}, we applied EA + Cs\textsuperscript{+}. Finally EA + Cs\textsuperscript{+} changed to EA + NT. (B) A representative full current trace of TRPC5\textsuperscript{WT} induced by EA. After establishing the whole-cell configuration, the external solution was changed from NT to EA + NT for recording TRPC5 current in HEK293 cells. At the steady-state of EA + NT, we applied EA + Cs\textsuperscript{+}. (C) A summarized current ratio at –60 mV of TRPC5\textsuperscript{WT} with EA. The gray line indicates baseline. (C, D) Relative monovalent cation permeability of TRPC5\textsuperscript{WT} activated by EA. (C) The I-V relationship of current increases by EA under the various monovalent conditions. (D) A summarized permeability to Cs\textsuperscript{+}, Na\textsuperscript{+}, Li\textsuperscript{+} of TRPC5\textsuperscript{WT} activated by EA. TRPC5, transient receptor potential canonical 5; WT, wild type; HEK, human embryonic kidney. *p < 0.05.