Supplementary Fig. 1. Surface expression of TRPC5\(^{WT}\) and TRPC5 mutants. (A) Representative cell surface biotinylation assay showing surface (plasma membrane) and total expression of TRPC5 as indicated. Biotinylated and total cellular proteins were quantified by immunoblot analysis. Mutant Y542F and K554N showed reduced surface and total expression compared with WT. (B) A summarized band density. There was no alteration of surface contrast to total expression in mutants. (C-F) Effects of englerin A (EA) on GTP\(^{\gamma}\)S-induced current increases of TRPC5\(^{WT}\) and TRPC5 mutants. (C) A representative full current trace of TRPC5\(^{WT}\) induced by intracellular GTP\(^{\gamma}\)S and EA (left) and the I-V relationship of current increases (b-a) by EA (right). The a, b indicates the basal current (a) and the peak current (b). (D) A representative full current trace of TRPC5\(^{K554N}\) induced by intracellular GTP\(^{\gamma}\)S and EA (left) and the I-V relationship of current increases by EA (right). (E) A representative full current trace of TRPC5\(^{H594N}\) induced by intracellular GTP\(^{\gamma}\)S and EA (left) and the I-V relationship of current increases by EA (right). (F) A representative full current trace of TRPC5\(^{E598Q}\) induced by intracellular GTP\(^{\gamma}\)S and EA (left) and the I-V relationship of current increases by EA (right). The dotted gray line indicates baseline. TRPC5, transient receptor potential canonical 5; WT, wild type; GTP\(^{\gamma}\)S, guanosine 5'-O-(gamma-thio)triphosphate.