Crosstalk between cholesterol and PIP$_2$ in the regulation of Kv7.2/Kv7.3 channels

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**Supplementary Material**

**Fig. S1.** Recordings of Kv7.2/Kv7.3 currents in absence of phosphoinositide phosphatases. (A-B), Representative Kv7.2/Kv7.3 current recorded in HEK-293 cells without co-expression of Dr-VSP. Control and 5 mM MβCD pretreated cells currents were recorded applying the voltage-protocol shown in the inset. (C) Percent inhibition of Kv7.2/Kv7.3 currents after depolarization to +100 mV in Control and MβCD pretreated cells. (D), Representative time-course of WT Kv7.2/Kv7.3 current amplitude before and during the application of rapamycin. (E), Typical current recordings of WT Kv7.2/Kv7.3 channels in control conditions (1) and after application of rapamycin (2). (F), Percent inhibition of maximal WT Kv7.2/Kv7.3 currents by rapamycin.