



Supplementary information, Figure S5 α, β -MeATP-induced endocytosis of P2X₃-Myc-GFP rather than α, β -MeATP-induced ERK activation *via* P2X₃ receptor is dependent on dynamin.

(A) Dynasore pre-treatment abolished α, β -MeATP-induced endocytosis of P2X₃-Myc-GFP in HEK293 cells. *, $P < 0.05$ versus control, ##, $P < 0.01$ versus indicated treatment, $n = 3$. (B) α, β -MeATP-induced ERK phosphorylation *via* P2X₃ receptor was not affected by dynasore in HEK293 cells. (C) Local ERK activation by α, β -MeATP application to the axon terminal in microfluidic chamber was not affected by dynasore pre-treatment in the same compartment. *, $P < 0.05$ versus vehicle treatment, $n = 3$.