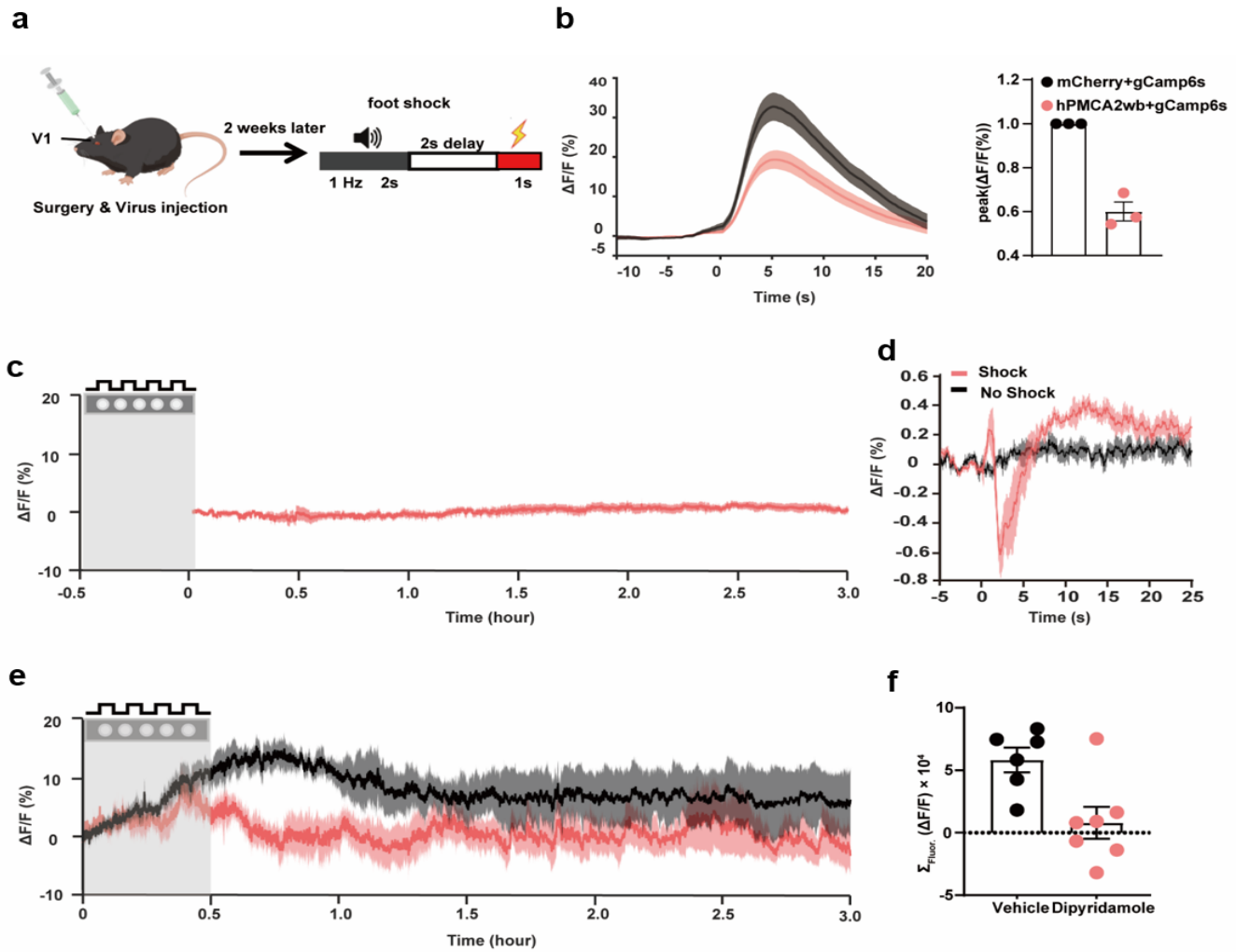

Fig. S3 The sustained increase in extracellular adenosine was dependent on ENT activity not ATP release. a Behavioral protocol for reward and foot shock conditioning tasks after expression of hPMCA2w/b in V1 two week. **b** Expression of hPMCA2w/b in V1 partially reduced astrocytic activity, as indicated by calcium signaling using gCaMP detector during foot shock conditioning tasks (n = 3/group). **c & d** Measurement of extracellular ATP levels after 40 Hz flickering (left figure) and after electric shock in mice expressing $GRAB_{ATP}$ (right figure) (n = 6/group). The data are presented as mean ± SEM, **P < 0.01, *P < 0.05, Student's t-test; dipyridamole-treated group vs. vehicle group. **e & f** Administering dipyridamole immediately after light flickering also eliminated 40 Hz flickering-induced subsequent extracellular adenosine generation after light flashing cessation (n = 6/group). The data are presented as mean ± SEM, **P < 0.01, *P < 0.05, Student's t-test; dipyridamole-treated group vs. vehicle group.