



Fig. S16. Analgesic effects of YHV98-4 or PBN in AAV-Hv1 KD mice. **a, b** Mechanical threshold tested before and after DRG virus microinjection in AAV-Hv1 KD mice in comparison to AAV-Control mice (n = 9-10, Mann-Whitney tests). **c, d** Analgesic effect of YHV98-4 in AAV-Hv1 KD or AAV-Control mice (n = 9-10, Two way repeated-measures ANOVA followed by Sidak's multiple comparisons test.). **e, f** Time courses for the analgesic effects of PBN (50 mg/kg, i.p.) on mechanical allodynia (**e**) and heat hyperalgesia (**f**) in CFA induced chronic inflammatory pain (n= 8-9 mice, two way repeated-measures ANOVA followed Tukey's multiple comparisons test. * AAV-Hv1-KD PBN vs AAV-Control PBN, # AAV-Control PBN vs AAV-Hv1-KD PBN Vehicle). The maximal possible effect (MPE) (%) value was calculated to compare the antinociceptive effects. $MPE (\%) = 100 \times [(post\ drug\ value - baseline\ value) / (cutoff\ value - baseline\ value)]$ (the cutoff value of von Frey test was

2 g, and was 20 s in Hargreaves test). All data are shown as mean \pm SEM. n.s., not significant,

* $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$. # $P < 0.05$, ## $P < 0.01$, ### $P < 0.001$.