



Figure 3 – Figure Supplement 2

Pharmacological inhibition of NPVF signaling suppresses RFRP-overexpression induced sleep.

(A,B,E,F) Following DMSO vehicle treatment, RFRP1,3 overexpression increased sleep in transgenic animals compared to WT siblings and to pre-HS (red bracket comparison). Following treatment with either RF9 (C,D) or GJ-14 (G,H), RFRP1,3 overexpression had no sleep effect post-HS compared to pre-HS (red bracket comparison). Yellow bars indicate heat shock. Pre- and Post-HS data is calculated for the day of HS. White and black bars under behavioral traces indicate day (14 hours) and night, respectively. Mean \pm SEM from one representative experiment (A,C,E,F,G), or two (H) or three (B,D) pooled experiments are shown. n=number of animals. DMSO vehicle and drug treated siblings were from the same clutch (A-D, E-H), but were tested in different videotrackers due to the numerous comparisons being made. n.s.=not significant, ** $P<0.01$, *** $P<0.005$ by Two-way ANOVA with Holm-Sidak test.