Figure 1a

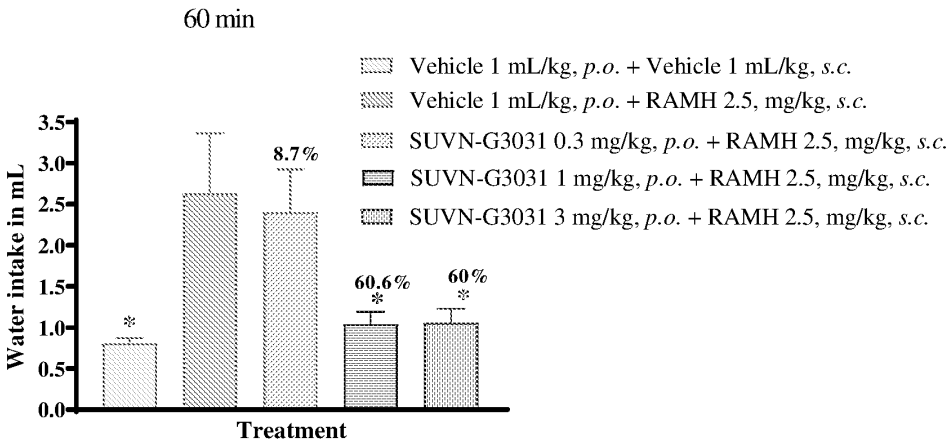
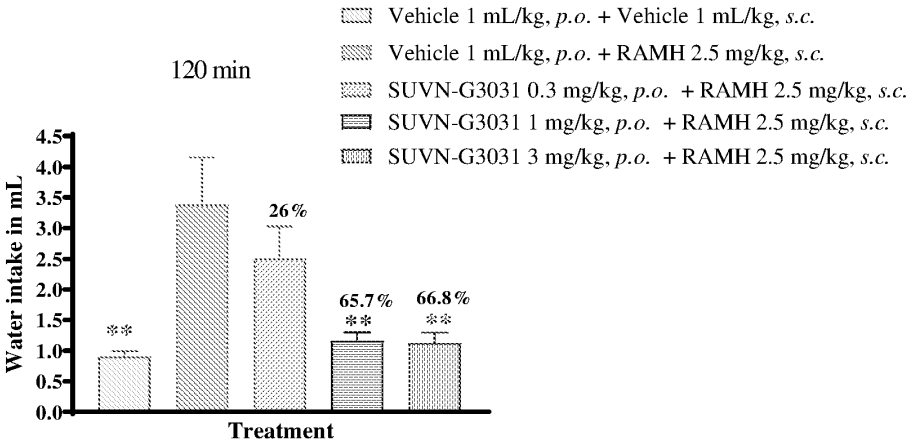
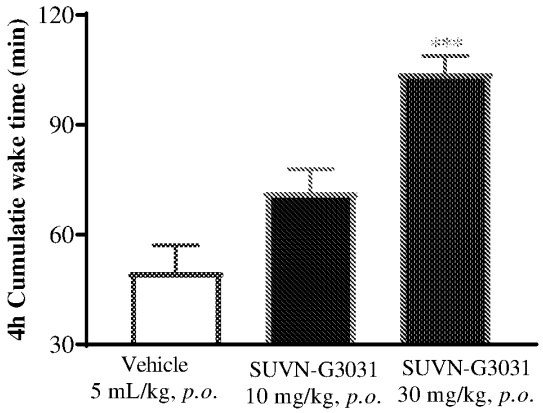



Figure 1b




**$p$<0.01, *$p$<0.05.one way ANOVA followed by Dunnett's post hoc test (n=8)

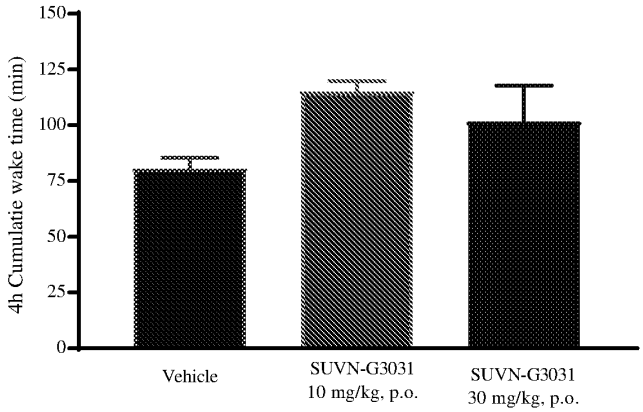
Figure 2




Results expressed as mean cumulative time spent in wake during first 4 hours period ± SEM.

*** $p<0.001$ Vs vehicle (Dunnett's post test; n=6-12/ group)

Figure 3




Results expressed as mean cumulative time spent in wake during first 4 hours period ± SEM.

**$p<0.01$ Vs vehicle (Unpaired t-test; n=5/ group)

Figure 4

Figure (4a) Wake

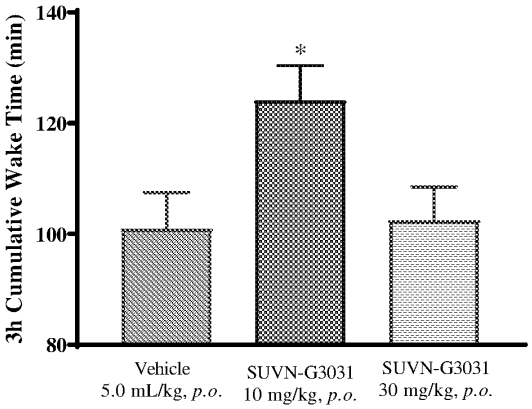



Figure (4b) REM sleep

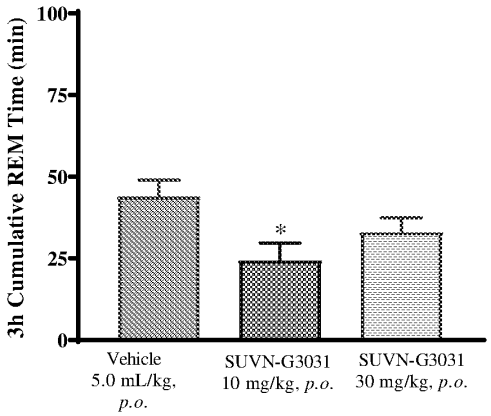
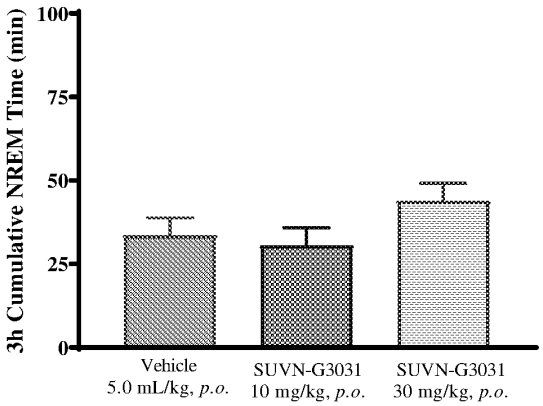


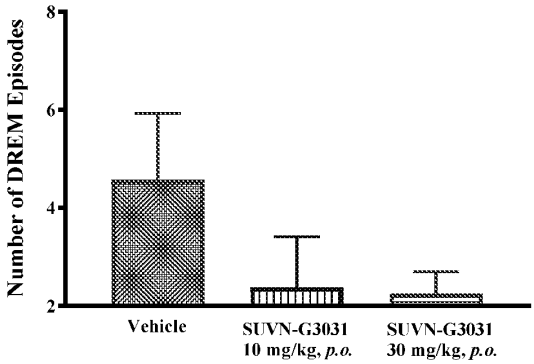
Figure (4c): NREM sleep




Results expressed as mean cumulative time spent in wake, REM or NREM during first 4 hours period ± SEM.

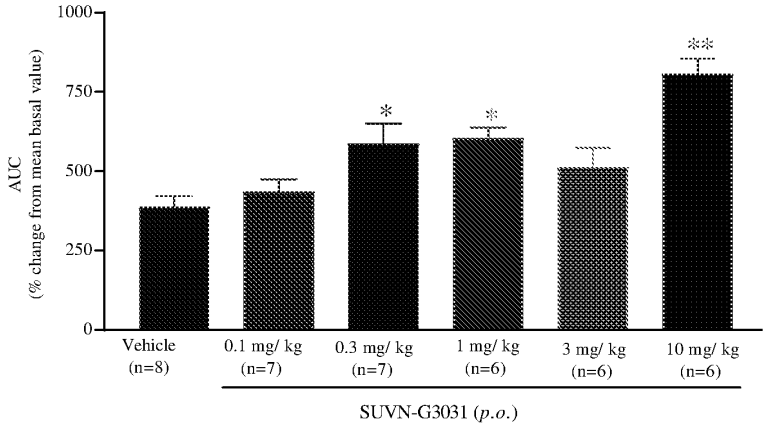
*$p$<0.05 Vs vehicle (Dunnett'spost test; n=7-8/ group)

Figure 5




Results expressed as mean ± SEM of DREMS observed during 4 hours period (n=7-8/ group).

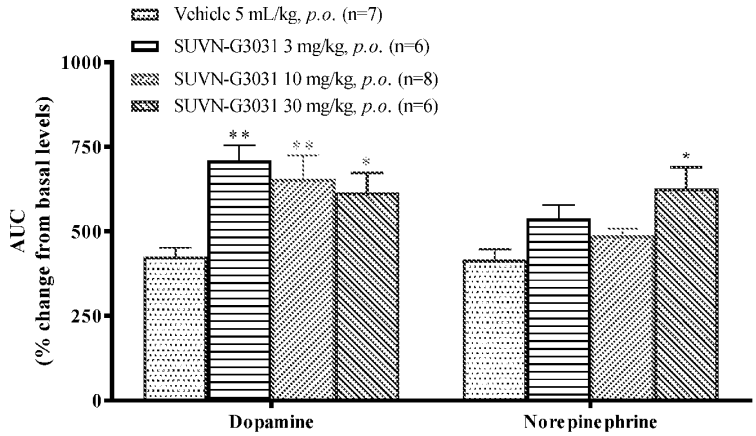
Figure 6




Results are cumulative changes in histamine levels expressed as mean area under the curve (AUC) ± S.E.M.

*$p$<0.05, **$p$<0.01 Vs Vehicle (Dunnett's test; n=6-8/ group).

Figure 7




Results are cumulative changes in dopamine and norepineprine levels expressed as mean area under the curve (AUC) ± S.E.M.

*$p$<0.05, **$p$<0.01 Vs Vehicle (Dunnett's test).