

**Supplementary Table 1.** Post-hoc analysis for 2-way repeated measures ANOVA on male mouse averaged body weight. Data are shown in Figure 1A and 1B.

Male	Vehicle vs 0.05 µg	Vehicle vs 0.50 µg	Vehicle vs 5.00 µg
<b>Days on α-MSH Treatment</b>	F (1,10) = 11.05 P = 0.0077	F (1,10) = 0.2 P = 0.6519	F (1,10) = 35 P = 0.0001
1	ns	ns	ns
2	ns	ns	ns
3	ns	ns	ns
4	ns	ns	ns
5	P < 0.05	ns	P < 0.05
6	ns	ns	P < 0.01
7	ns	ns	P < 0.01
8	ns	ns	P < 0.01
9	ns	ns	P < 0.001
10	ns	ns	P < 0.01
11	ns	ns	P < 0.01
12	ns	ns	P < 0.01
13	ns	ns	P < 0.01
14	P < 0.05	ns	P < 0.01
<b>Days on Desacetyl-α-MSH Treatment</b>	F (1,11) = 0.0 P = 0.8448	F (1,10) = 0.6 P = 0.4377	F (1,10) = 5.6 P = 0.0385
1	ns	ns	ns
2	ns	ns	ns
3	ns	ns	ns
4	ns	ns	ns
5	ns	ns	ns
6	ns	ns	ns
7	ns	ns	ns
8	ns	ns	ns
9	ns	ns	ns
10	ns	ns	ns
11	ns	ns	ns
12	ns	ns	ns
13	ns	ns	ns
14	ns	ns	ns