

**Supplementary Table 4.** Age and body weight for female *Pomc*<sup>tm1/tm1</sup> mice at the start of treatment. Data shown for 14 days of treatment in Figure 1C and 1D.

Treatment	$\alpha$ -MSH			Desacetyl- $\alpha$ -MSH		
	Animal ID	Age at Surgery (weeks)	Body weight at Day 0 (g)	Animal ID	Age at Surgery (weeks)	Body weight at Day 0 (g)
<b>Vehicle</b>						
	1.1	23	33.41	1.1	26	31.05
	1.2	23	27.86	1.2	26	31.36
	1.3	23	27.81	1.3	23	33.23
	1.4	23	37.20	2.1	26	36.05
	2.1	23	34.63	2.2	26	37.76
	2.2	23	31.10	2.3	26	31.57
	2.3	23	35.25	2.4	26	32.02
	2.4	24	27.20			
<b>0.05 <math>\mu</math>g</b>						
	1.1	25	33.47	1.1	25	34.84
	1.2	25	30.15	1.2	25	33.66
	1.3	26	33.90	1.3	25	37.10
	2.1	24	24.08	2.1	26	31.58
	2.2	24	30.52	2.2	26	30.52
	2.3	24	28.72	2.3	26	32.70
	2.4	24	27.75	2.4	26	37.43
<b>0.50 <math>\mu</math>g</b>						
	1.1	24	32.56	1.1	26	41.10
	1.2	24	35.78	1.2	26	34.06
	1.3	24	35.18	1.3	26	32.08

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	1.4	24	32.50	2.1	25	31.52
	2.1	24	31.25	2.2	25	28.55
	2.2	24	33.97	2.3	25	30.20
	2.3	24	32.08	2.4	25	35.43
	2.4	24	26.61			
<b>5.00 µg</b>						
	1.1	23	30.12	1.1	24	28.76
	1.2	23	29.91	1.2	24	28.72
	1.3	23	32.16	1.3	24	29.44
	1.4	23	32.68	1.4	24	31.35
	2.1	25	28.35	2.1	25	36.08
	2.2	25	29.36	2.2	25	32.30
	2.3	25	29.45	2.3	25	32.99
	2.4	25	36.55	2.4	25	31.20