Research Report

Human Growth Hormone Increases SMN Expression and Survival in Severe Spinal Muscular Atrophy Mouse Model

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Supplementary Figure 1. (a) Representative Western blots showing SMN protein in skeletal muscle samples of SMN7 mice treated with saline (control lane 1 & 2) or HGH (treatment lane 1 & 2) (each lane represents individual animal; all lanes were run on the same gel but were non-contiguous). (b) Densitometric quantification of SMN relative to Actin [mean ± SEM (bars)] is shown for skeletal muscle samples (n = 8 for Saline and n = 10 for HGH treatment). (c) Representative Western blots showing SMN protein in heart samples of SMN7 mice treated with saline (control lane 1 & 2) or HGH (treatment lane 1 & 2) (each lane represents an individual animal; all lanes were run on the same gel but were non-contiguous). (d) Densitometric quantification of SMN relative to Tubulin [mean ± SEM (bars)] is shown for heart samples (n = 10 for saline and n = 8 for HGH treatment); n.s. = not significant; *P < 0.05; **P < 0.01; t-test.

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Supplementary Figure 2. (a) Representative Western blots showing SMN protein in liver samples of SMN/A7 mice treated with saline (control, lane 1 & 2) or HGH (treatment lane 1 & 2) (each lane represents individual animal). (b) Densitometric quantification of SMN relative to Actin (mean + SEM bars) is shown for liver samples (n = 5 for Saline and n = 5 for HGH treatment). (c) IGF1 liver levels in SMN/A7 mice treated with saline or HGH (n = 5 for each treatment group) as measured by ELISA. **P < 0.01; t-test.