In vivo Animal Models

ALS

SOD1-G93A Transgenic Mouse Model Low expressors

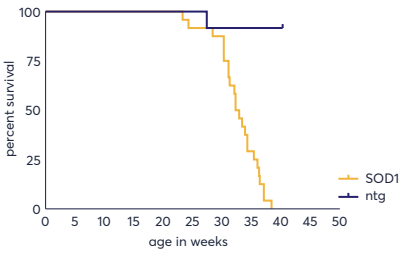
This Amyotrophic Lateral Sclerosis (ALS) mouse model overexpresses the human SOD1 (super-oxide dismutase 1) containing a G93A mutation with a low copy number under the regulatory control of the human SOD1 promoter.

- Mean survival of appr. 32 weeks
- Reduced body weight starting at about 32 weeks
- Clasping deficits starting at 36 weeks
- Early wire suspension deficits
- Clinical signs starting at 33 weeks

Figure 1:
Survival curve and clasping behavior over age of SOD1-G93A low expressor mice. Two-way ANOVA with Bonferroni's post hoc test. *p<0.05.

Survival

Figure 1: A



Clasping Test

Figure 1: B

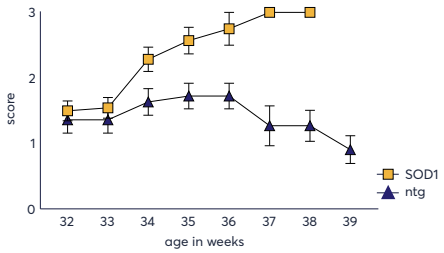
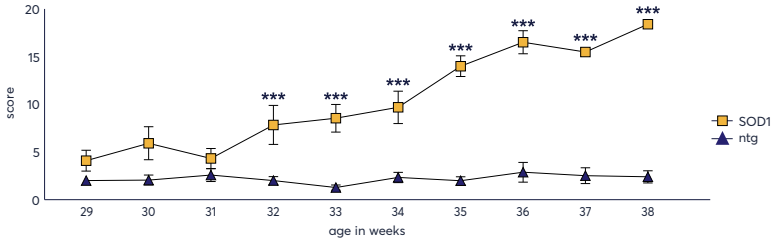


Figure 2:
Scoring of clinical signs of SOD1-G93A low expressor mice over age. Two-way ANOVA with Bonferroni's post hoc test. ***p<0.001.

Clinical Signs

Figure 2: A



Reference:
Molnar-Kasza A, Hinteregger B, Neddens J, Rabl R, Flunkert S, Hutter-Paier B (2021) Evaluation of Neuropathological Features in the SOD1-G93A Low Copy Number Transgenic Mouse Model of Amyo-trophic Lateral Sclerosis. Front. Mol. Neurosci., 24 June 2021.

Scantox
Discovery

Scantox Group, HQ
Hestehavevej 36A, Ejby
DK – 4623 Lille Skensved
clientservice@scantox.com
www.scantox.com
+45 5686 1500

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