Resource Summary Report

Generated by NIF on Aug 30, 2026

NTac:SD-Tg(SOD1G93A)L26H

RRID:IMSR_TAC:2148
Type: Organism

Proper Citation

RRID:IMSR_TAC:2148

Organism Information

URL: https://www.taconic.com/rat-model/sod1-rat

Proper Citation: RRID:IMSR_TAC:2148

Description: Mus musculus with name NTac:SD-Tg(SOD1G93A)L26H from IMSR.

Species: Mus musculus

Notes: gene symbol note: ; mutant strain:

Catalog Number: TAC:2148

Database: Taconic Biosciences

Database Abbreviation: TAC

Availability: live

Organism Name: NTac:SD-Tg(SOD1G93A)L26H

Record Creation Time: 20250513T053517+0000

Record Last Update: 20260829T044809+0000

Ratings and Alerts

No rating or validation information has been found for NTac:SD-Tg(SOD1G93A)L26H.

No alerts have been found for NTac:SD-Tg(SOD1G93A)L26H.

Data and Source Information

Source: Integrated Animals

Source Database: Taconic Biosciences

Usage and Citation Metrics

We found 274 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Strohmer B, et al. (2026) Spinal circuit mechanisms constrain therapeutic windows for ALS intervention: A computational modeling study. Neurobiology of disease, 219, 107253.

Wan F, et al. (2026) Intravenous administration of an engineered AAV9-gene-silencing vector suppresses human SOD1 and extends survival in an ALS mouse model. Nature communications, 17(1).

Ryu IS, et al. (2026) Modulation of the miR-485-3p/PGC-1? Pathway by ASO-Loaded Nanoparticles Attenuates ALS Pathogenesis. International journal of molecular sciences, 27(2).

Gunner G, et al. (2025) Gasdermin D is activated but does not drive neurodegeneration in SOD1G93A model of ALS: Implications for targeting pyroptosis. Neurobiology of disease, 214, 107048.

Hwang DW, et al. (2025) Image-Guided Monitoring of Mitochondria and Blood-Brain Barrier Dysfunction in Amyotrophic Lateral Sclerosis Mice. Biomaterials research, 29, 0162.

Hale OJ, et al. (2024) Mass spectrometry imaging of SOD1 protein-metal complexes in SOD1G93A transgenic mice implicates demetalation with pathology. Nature communications, 15(1), 6518.

Chen LX, et al. (2024) Single-Nucleus RNA Sequencing Reveals the Spatiotemporal Dynamics of Disease-Associated Microglia in Amyotrophic Lateral Sclerosis. Research (Washington, D.C.), 7, 0548.

Baindoor S, et al. (2024) Distinct fingerprints of tRNA-derived small non-coding RNA in animal models of neurodegeneration. Disease models & mechanisms, 17(11).

López-Royo T, et al. (2024) Differentially expressed lncRNAs in SOD1G93A mice skeletal muscle: H19, Myhas and Neat1 as potential biomarkers in amyotrophic lateral sclerosis. Open biology, 14(10), 240015.

Yan J, et al. (2024) TwinF interface inhibitor FP802 stops loss of motor neurons and mitigates disease progression in a mouse model of ALS. Cell reports. Medicine, 5(2), 101413.

Wang YM, et al. (2024) TwinF interface inhibitor FP802 prevents retinal ganglion cell loss in a mouse model of amyotrophic lateral sclerosis. Acta neuropathologica communications, 12(1), 149.

Miquel E, et al. (2024) Pyruvate dehydrogenase kinase 2 knockdown restores the ability of amyotrophic lateral sclerosis-linked SOD1G93A rat astrocytes to support motor neuron

survival by increasing mitochondrial respiration. Glia, 72(5), 999.

Marton S, et al. (2023) SOD1G93A Astrocyte-Derived Extracellular Vesicles Induce Motor Neuron Death by a miRNA-155-5p-Mediated Mechanism. ASN neuro, 15, 17590914231197527.

Meanti R, et al. (2023) Protective Effects of Hexarelin and JMV2894 in a Human Neuroblastoma Cell Line Expressing the SOD1-G93A Mutated Protein. International journal of molecular sciences, 24(2).

Tu LF, et al. (2023) GPX4 deficiency-dependent phospholipid peroxidation drives motor deficits of ALS. Journal of advanced research, 43, 205.

Hernández S, et al. (2023) Persistent NRG1 Type III Overexpression in Spinal Motor Neurons Has No Therapeutic Effect on ALS-Related Pathology in SOD1G93A Mice. Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics, 20(6), 1820.

Scarrott JM, et al. (2023) Ap4b1-knockout mouse model of hereditary spastic paraplegia type 47 displays motor dysfunction, aberrant brain morphology and ATG9A mislocalization. Brain communications, 5(1), fcac335.

Fabbrizio P, et al. (2023) Intramuscular IL-10 Administration Enhances the Activity of Myogenic Precursor Cells and Improves Motor Function in ALS Mouse Model. Cells, 12(7).

Gao T, et al. (2023) Protective effects of intrathecal injection of AAV9-RabGGTB-GFP+ in SOD1G93A mice. Frontiers in aging neuroscience, 15, 1092607.

Margotta C, et al. (2023) Immune-mediated myogenesis and acetylcholine receptor clustering promote a slow disease progression in ALS mouse models. Inflammation and regeneration, 43(1), 19.