

Resource Summary Report

Generated by [kravitz2](#) on Jul 31, 2026

[Nadk^{tm1e\(EUCOMM\)}Wtsi](#)

RRID:IMSR_EUMMCR:1349

Type: Organism

Proper Citation

RRID:IMSR_EUMMCR:1349

Organism Information

URL:

Proper Citation: RRID:IMSR_EUMMCR:1349

Description: Mus musculus with name Nadk^{tm1e(EUCOMM)}Wtsi from IMSR.

Species: Mus musculus

Notes: gene symbol note: NAD kinase; mutant strain: Nadk

Affected Gene: NAD kinase

Genomic Alteration: targeted mutation 1e; Wellcome Trust Sanger Institute

Catalog Number: EUMMCR:1349

Database: European Mouse Mutant Cell Repository

Database Abbreviation: EuMMCR

Availability: ES Cell

Organism Name: Nadk^{tm1e(EUCOMM)}Wtsi

Record Creation Time: 20250513T061606+0000

Record Last Update: 20260725T052256+0000

Ratings and Alerts

No rating or validation information has been found for Nadk^{tm1e(EUCOMM)}Wtsi.

No alerts have been found for Nadk^{tm1e(EUCOMM)}Wtsi.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: European Mouse Mutant Cell Repository

Usage and Citation Metrics

We found 27 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Tisi A, et al. (2025) Alterations of endocannabinoid signaling and microglia reactivity in the retinas of AD-like mice precede the onset of hippocampal β -amyloid plaques. *Journal of neurochemistry*, 169(2), e16256.

Calvo-Rodriguez M, et al. (2024) Real-time imaging of mitochondrial redox reveals increased mitochondrial oxidative stress associated with amyloid β aggregates in vivo in a mouse model of Alzheimer's disease. *Molecular neurodegeneration*, 19(1), 6.

Wilson EN, et al. (2024) TREM1 disrupts myeloid bioenergetics and cognitive function in aging and Alzheimer disease mouse models. *Nature neuroscience*, 27(5), 873.

Seedhom MO, et al. (2024) Paradoxical imbalance between activated lymphocyte protein synthesis capacity and rapid division rate. *eLife*, 12.

Liu P, et al. (2024) A β ₅₆ is a stable oligomer that impairs memory function in mice. *iScience*, 27(3), 109239.

Elia A, et al. (2023) Amyloid β induces cardiac dysfunction and neuro-signaling impairment in the heart of an Alzheimer's disease model. *bioRxiv : the preprint server for biology*.

Bergamini G, et al. (2022) Longitudinal assessment of aggression and circadian rhythms in the APPswe mouse model of Alzheimer's disease. *Physiology & behavior*, 250, 113787.

Simon M, et al. (2022) Loss of perivascular aquaporin-4 localization impairs glymphatic exchange and promotes amyloid β plaque formation in mice. *Alzheimer's research & therapy*, 14(1), 59.

Borgstedt L, et al. (2022) Isoflurane has no effect on cognitive or behavioral performance in a mouse model of early-stage Alzheimer's disease. *Frontiers in neuroscience*, 16, 1033729.

Piccialli I, et al. (2022) Increased KV2.1 Channel Clustering Underlies the Reduction of Delayed Rectifier K⁺ Currents in Hippocampal Neurons of the Tg2576 Alzheimer's Disease Mouse. *Cells*, 11(18).

Lordén G, et al. (2022) Enhanced activity of Alzheimer disease-associated variant of protein kinase C δ drives cognitive decline in a mouse model. *Nature communications*, 13(1), 7200.

Salazar JG, et al. (2021) Paraoxonase-1 and -3 Protein Expression in the Brain of the Tg2576 Mouse Model of Alzheimer's Disease. *Antioxidants* (Basel, Switzerland), 10(3).

Bevan RJ, et al. (2020) Retinal ganglion cell degeneration correlates with hippocampal spine loss in experimental Alzheimer's disease. *Acta neuropathologica communications*, 8(1), 216.

Tackenberg C, et al. (2020) Familial Alzheimer's disease mutations at position 22 of the amyloid β -peptide sequence differentially affect synaptic loss, tau phosphorylation and neuronal cell death in an ex vivo system. *PloS one*, 15(9), e0239584.

Calvo-Rodriguez M, et al. (2020) Increased mitochondrial calcium levels associated with neuronal death in a mouse model of Alzheimer's disease. *Nature communications*, 11(1), 2146.

Ciccone R, et al. (2019) Amyloid β -Induced Upregulation of Nav1.6 Underlies Neuronal Hyperactivity in Tg2576 Alzheimer's Disease Mouse Model. *Scientific reports*, 9(1), 13592.

Findley CA, et al. (2019) Amyloid Beta-Related Alterations to Glutamate Signaling Dynamics During Alzheimer's Disease Progression. *ASN neuro*, 11, 1759091419855541.

Whitesell JD, et al. (2019) Whole brain imaging reveals distinct spatial patterns of amyloid beta deposition in three mouse models of Alzheimer's disease. *The Journal of comparative neurology*, 527(13), 2122.

György B, et al. (2018) CRISPR/Cas9 Mediated Disruption of the Swedish APP Allele as a Therapeutic Approach for Early-Onset Alzheimer's Disease. *Molecular therapy. Nucleic acids*, 11, 429.

Briggs DI, et al. (2017) Role of Endoplasmic Reticulum Stress in Learning and Memory Impairment and Alzheimer's Disease-Like Neuropathology in the PS19 and APPSwe Mouse Models of Tauopathy and Amyloidosis. *eNeuro*, 4(4).