

Resource Summary Report

Generated by [RRID](#) on Sep 1, 2026

N27

RRID:CVCL_D584

Type: Cell Line

Proper Citation

Millipore Cat# SCC048, RRID:CVCL_D584

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_D584

Proper Citation: Millipore Cat# SCC048, RRID:CVCL_D584

Description: Cell line N27 is a Transformed cell line with a species of origin Rattus norvegicus (Rat)

Sex: Sex unspecified

Defining Citation: [PMID:7820310](#), [PMID:22863662](#), [PMID:27512998](#)

Comments: Characteristics: During many passages over 20 years, the original cell line became a mixture of cell types with less than 5% TH-positive dopamine neurons (PubMed=27512998)., Characteristics: Used as a dopaminergic neuron model for in vitro and in vivo studies (Millipore=SCC048).

Category: Transformed cell line

Organism: Rattus norvegicus (Rat)

Name: N27

Synonyms: N-27, 1RB3AN27, 1RB3A-N27

Cross References: BTO:BTO_0002393, Millipore:SCC048, Wikidata:Q54907338

ID: CVCL_D584

Vendor: Millipore

Catalog Number: SCC048

Record Creation Time: 20250130T072153+0000

Record Last Update: 20260830T001650+0000

Ratings and Alerts

No rating or validation information has been found for N27.

No alerts have been found for N27.

Data and Source Information

Source: [CelloSaurus](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Sitton J, et al. (2026) Fatty acids alter to the toxicity of islet amyloid polypeptide aggregates in a length and saturation dependent manner. *iScience*, 29(1), 114401.

Purvinsh Y, et al. (2026) Elucidation of Molecular Mechanisms of Lipid-Altered Cytotoxicity of TDP-43 Fibrils. *ACS chemical neuroscience*, 17(4), 823.

Ali A, et al. (2025) Familial mutations modulate α -synuclein interactions with key neuronal membrane lipids. *The FEBS journal*.

García-Revilla J, et al. (2024) Dopaminergic neurons lacking Caspase-3 avoid apoptosis but undergo necrosis after MPTP treatment inducing a Galectin-3-dependent selective microglial phagocytic response. *Cell death & disease*, 15(8), 625.

Wang C, et al. (2024) Metabolic rescue of α -synuclein-induced neurodegeneration through propionate supplementation and intestine-neuron signaling in *C. elegans*. *Cell reports*, 43(3), 113865.

García-Revilla J, et al. (2023) Galectin-3 shapes toxic alpha-synuclein strains in Parkinson's disease. *Acta neuropathologica*.

Neal ML, et al. (2023) Voltage-Gated Proton Channel Hv1 Regulates Neuroinflammation and Dopaminergic Neurodegeneration in Parkinson's Disease Models. *Antioxidants (Basel, Switzerland)*, 12(3).

Fadeyibi O, et al. (2022) The Role of Lipid Rafts and Membrane Androgen Receptors in Androgen's Neurotoxic Effects. *Journal of the Endocrine Society*, 6(5), bvac030.

Duong P, et al. (2020) Neuroprotective and neurotoxic outcomes of androgens and estrogens in an oxidative stress environment. *Biology of sex differences*, 11(1), 12.

Tenkorang MAA, et al. (2019) NADPH Oxidase Mediates Membrane Androgen Receptor-Induced Neurodegeneration. *Endocrinology*, 160(4), 947.

Mythri RB, et al. (2017) Manganese- and 1-methyl-4-phenylpyridinium-induced neurotoxicity display differences in morphological, electrophysiological and genome-wide

alterations: implications for idiopathic Parkinson's disease. *Journal of neurochemistry*, 143(3), 334.

Ay M, et al. (2017) Molecular mechanisms underlying protective effects of quercetin against mitochondrial dysfunction and progressive dopaminergic neurodegeneration in cell culture and MitoPark transgenic mouse models of Parkinson's Disease. *Journal of neurochemistry*, 141(5), 766.