Resource Summary Report

Generated by dkNET on Aug 17, 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: 20260816T001407+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 dkNET .

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 ?-synuclein interactions with key neuronal membrane lipids. The FEBS journal.

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

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.

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.