

Resource Summary Report

Generated by [NIF](#) on Sep 7, 2026

HL-1

RRID:CVCL_0303

Type: Cell Line

Proper Citation

Millipore Cat# SCC065, RRID:CVCL_0303

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0303

Proper Citation: Millipore Cat# SCC065, RRID:CVCL_0303

Description: Cell line HL-1 is a Transformed cell line with a species of origin Mus musculus (Mouse)

Sex: Female

Defining Citation: [PMID:9501201](#), [PMID:10908350](#), [PMID:14766671](#)

Comments: Caution: The STR profile of HL-1 as distributed from Ubigen shows that the cell line that what they distribute is not HL-1 but C2C12 (Cellosaurus=CVCL_0188) or a derivative of that cell line (Ubigen=YC-C100)., Characteristics: From transgenic mice expressing a fusion gene comprised of the atrial natriuretic factor promoter and the SV40 early region., Characteristics: Spontaneously contract while maintaining a differentiated cardiac phenotype (Millipore=SCC065)., Group: Patented cell line.

Category: Transformed cell line

Organism: Mus musculus (Mouse)

Name: HL-1

Synonyms: HL1, HL-1 F2 P76

Cross References: BTO:BTO_0003264, EFO:EFO_0022835, MCCL:MCC:0000194, Lonza:740, Millipore:SCC065, Ubigen:YC-C100, Wikidata:Q29838237

ID: CVCL_0303

Vendor: Millipore

Catalog Number: SCC065

Record Creation Time: 20220427T220435+0000

Record Last Update: 20260905T180449+0000

Ratings and Alerts

No rating or validation information has been found for HL-1.

No alerts have been found for HL-1.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 669 mentions in open access literature.

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

Geng X, et al. (2026) Comparative Study on Physicochemical Characteristics and Synergistic Anticancer Effects of Polysaccharides from Different Sources of Radix Bupleuri. *Chemistry & biodiversity*, 23(5), e03695.

Zheng Z, et al. (2026) The deubiquitinase YOD1 in cardiomyocytes mediates septic cardiomyopathy by deubiquitinating and thus stabilizing the NLRP3 inflammasome. *British journal of pharmacology*, 183(13), 3558.

Shen QR, et al. (2026) Activated gasdermin E (GSDME) amplifies endoplasmic reticulum stress and inflammation in α -adrenoceptor overactivation-induced cardiac injury. *British journal of pharmacology*, 183(17), 5245.

Cheng J, et al. (2026) Young Regulatory T Cell-Derived Extracellular Vesicles Improve Mitochondrial Function and Angiogenesis and Suppress Inflammation in Senescent Brain and Heart. *Journal of neurochemistry*, 170(3), e70402.

Zhang Z, et al. (2026) High sucralose exposure in early pregnancy increases the susceptibility of heart defects in mice offspring. *iScience*, 29(5), 115603.

Ye B, et al. (2025) Cardiomyocyte-derived YOD1 promotes pathological cardiac hypertrophy by deubiquitinating and stabilizing STAT3. *Science advances*, 11(26), eadu8422.

Zhang K, et al. (2025) Rab32 protects mitochondrial function by anchoring Fancd2 and mediates the protective effect of penehyclidine hydrochloride against myocardial ischemia-reperfusion injury. *International immunopharmacology*, 156, 114697.

Tian H, et al. (2025) Inhibition of Macrophage ARID3A Alleviates Myocardial Ischemia-Reperfusion Injury After Heart Transplantation by Reducing THBS1/CD47 Signaling-Mediated Neutrophil Extracellular Traps Formation. *Advanced science (Weinheim, Baden-*

Wurttemberg, Germany), e09952.

Zi C, et al. (2025) BASP1/HTRA2 axis, targeted by miR-7a-5p, exerted a pro-apoptosis role in myocardial ischemia/reperfusion injury. *Toxicology and applied pharmacology*, 502, 117437.

Visnovitz T, et al. (2025) A 'torn bag mechanism' of small extracellular vesicle release via limiting membrane rupture of en bloc released amphisomes (amphictosomes). *eLife*, 13.

Shu S, et al. (2025) Histone Deacetylase 6 Controls Atrial Fibrosis and Remodeling in Postinfarction Mice Through the Modulation of Wnt3a/GSK-3 β Signaling. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 39(10), e70650.

Pan W, et al. (2025) A circular RNA derived from the ryanodine receptor 2 locus controls cardiac hypertrophy and calcium handling. *Cellular and molecular life sciences : CMLS*, 82(1), 359.

Cheah E, et al. (2025) Customizable Fabrication of 2D and Conformal Multielectrode Arrays for 3D Printed Organotypic Bioelectronic Interfaces. *Advanced healthcare materials*, e02757.

Li YC, et al. (2024) Carvedilol Confers Ferroptosis Resistance in HL-1 Cells by Upregulating GPX4, FTH1, and FTL1 and Inducing Metabolic Remodeling Under Hypoxia/Reoxygenation. *Antioxidants (Basel, Switzerland)*, 14(1).

Wu A, et al. (2024) The activation of LBH-CRYAB signaling promotes cardiac protection against I/R injury by inhibiting apoptosis and ferroptosis. *iScience*, 27(5), 109510.

Peng H, et al. (2024) NR4A3 prevents diabetes induced atrial cardiomyopathy by maintaining mitochondrial energy metabolism and reducing oxidative stress. *EBioMedicine*, 106, 105268.

Ko TH, et al. (2023) Inhibition of late sodium current via PI3K/Akt signaling prevents cellular remodeling in tachypacing-induced HL-1 atrial myocytes. *Pflügers Archiv : European journal of physiology*, 475(2), 217.

Zhao R, et al. (2023) Gestational palmitic acid suppresses embryonic GATA-binding protein 4 signaling and causes congenital heart disease. *Cell reports. Medicine*, 4(3), 100953.

Wu X, et al. (2023) Dihydrotanshinone I preconditions myocardium against ischemic injury via PKM2 glutathionylation sensitive to ROS. *Acta pharmaceutica Sinica. B*, 13(1), 113.

Yang M, et al. (2023) Circ_0001052 promotes cardiac hypertrophy via elevating Hipk3. *Aging*, 15(4), 1025.