

Resource Summary Report

Generated by [NIF](#) on Aug 25, 2026

HaCaT

RRID:CVCL_0038

Type: Cell Line

Proper Citation

RRID:CVCL_0038

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_0038

Proper Citation: RRID:CVCL_0038

Description: Cell line HaCaT is a Spontaneously immortalized cell line with a species of origin Homo sapiens (Human)

Sex: Male

Defining Citation: [PMID:2450098](#), [PMID:8162337](#), [PMID:8504475](#), [PMID:9290701](#), [PMID:9406811](#), [PMID:10350023](#), [PMID:10523843](#), [PMID:11416159](#), [PMID:11583982](#), [PMID:15389883](#), [PMID:16957166](#), [PMID:20097197](#), [PMID:20100199](#), [PMID:21185708](#), [PMID:21269460](#), [PMID:21868764](#), [PMID:24155234](#), [PMID:26989177](#), [PMID:29468137](#), [PMID:29660373](#), [PMID:31629070](#), [PMID:32938951](#), [PMID:33718544](#), [PMID:35072517](#), [PMID:35647242](#)

Comments: Caution: Although HaCaT is distributed by a number of sources, the only official DKFZ-approved supplier is CLS., Virology: Susceptible to infection by Zika virus (ZIKV) (PubMed=29468137)., Population: Caucasian., Part of: Human Protein Atlas, Cell Atlas panel.

Category: Spontaneously immortalized cell line

Organism: Homo sapiens (Human)

Name: HaCaT

Synonyms: HaCAT, HACAT, HacaT

Cross References: BTO:BTO_0000552, EFO:EFO_0002056, CLDB:cl7229, AddexBio:T0020001/117, BCRJ:0341, CCRID:1101HUM-PUMC000373, CCRID:4201HUM-CCTCC00106, CCTCC:GDC0106, ChEMBL-Cells:ChEMBL3308509, ChEMBL-Targets:ChEMBL614392, CLS:300493, Cosmic:1530737, DSMZ:ACC-771,

DSMZCellDive:ACC-771, GEO:GSE57080, GEO:GSM913344, GEO:GSM913345, GEO:GSM960278, GEO:GSM960279, GEO:GSM960280, GEO:GSM960286, GEO:GSM960287, GEO:GSM960288, GEO:GSM960294, GEO:GSM960295, GEO:GSM960296, GEO:GSM1375594, GEO:GSM1375595, GEO:GSM1375596, GEO:GSM1375597, GEO:GSM1375598, GEO:GSM1375599, GEO:GSM1375600, GEO:GSM1375601, GEO:GSM1375602, GEO:GSM1375603, GEO:GSM1375604, GEO:GSM1375605, GEO:GSM1861816, GEO:GSM1861817, GEO:GSM1861820, GEO:GSM1861821, GEO:GSM2112559, GEO:GSM2112563, GEO:GSM2495796, GEO:GSM2495797, GEO:GSM2495798, GEO:GSM7701420, GEO:GSM7701421, IARC_TP53:1820, ICLC:HL14001, IZSLER:BS CL 168, KCB:KCB 200442YJ, Lonza:56, MeSH:D000084282, MetaboLights:MTBLS127, PRIDE:PXD000496, PRIDE:PXD000670, PRIDE:PXD002460, PRIDE:PXD007789, PRIDE:PXD013113, PRIDE:PXD017536, PRIDE:PXD030700, PRIDE:PXD033538, PubChem_Cell_line:CVCL_0038, TOKU-E:3890, Ubigen:YC-A018, Wikidata:Q5636366

ID: CVCL_0038

Record Creation Time: 20220427T220226+0000

Record Last Update: 20260815T233515+0000

Ratings and Alerts

No rating or validation information has been found for HaCaT.

Warning: Discontinued: BCRJ; 0341

Caution: Although HaCaT is distributed by a number of sources, the only official DKFZ-approved supplier is CLS., Virology: Susceptible to infection by Zika virus (ZIKV) (PubMed=29468137)., Population: Caucasian., Part of: Human Protein Atlas, Cell Atlas panel. **Warning:** Discontinued: ICLC; HL14001

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Caution: Although HaCaT is distributed by a number of sources, the only official DKFZ-approved supplier is CLS., Virology: Susceptible to infection by Zika virus (ZIKV) (PubMed=29468137)., Population: Caucasian., Part of: Human Protein Atlas, Cell Atlas panel.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 6183 mentions in open access literature.

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

Chaki Borr??s ML, et al. (2026) Theranostic Nonstoichiometric, Multivalent Bismuth (Bi)-Based Nanospheres for Selective Spontaneous Melanoma Treatment. *ACS applied materials & interfaces*, 18(1), 780.

Herrera MA, et al. (2026) Mitochondrial fatty acid oxidation is stimulated by red light irradiation. *FEBS letters*, 600(1), 20.

Cocc?? V, et al. (2026) Secretome From Human Micro-Fragmented Adipose Tissue Affects In Vitro Monocytes/Macrophages Inflammatory Activity by ICAM-1 Expression. *Mediators of inflammation*, 2026(1), e9475320.

Liu Y, et al. (2026) Advanced glycation end products promote *Porphyromonas gingivalis* dissemination via an ROS-dependent, inflammation-independent mechanism. *Cell reports*, 45(4), 117252.

Kim HM, et al. (2026) Topical *Trichosanthis Radix* Water Extract Attenuates Atopic Dermatitis-Like Skin Inflammation: Marker Standardization, Network Pharmacology, and Preclinical Validation. *Mediators of inflammation*, 2026(1), e8744885.

Jin J, et al. (2026) Synergistic Anti-Cancer Therapy Through Ultrasound-Induced Piezocatalytic Therapy and Tumor Treatment Fields. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(2), e11604.

Pyun WY, et al. (2026) Nutrient Availability Dictates Cancer Metabolism-Based Therapeutic Responses to Nononcology Drugs. *Cancer research*, 86(5), 1194.

Wang N, et al. (2026) USP16 drives psoriasis progression by deubiquitinating and stabilizing NLRP3 in keratinocytes. *JCI insight*, 11(5).

Liu X, et al. (2026) Keratinocyte transport of notoginsenoside R1 via ABCG2: A novel mechanism for RNA N6-methyladenosine modification in UVB induced skin sunburn injury. *Drug metabolism and disposition: the biological fate of chemicals*, 54(3), 100252.

Mondal S, et al. (2026) G-quartet driven adaptive hydrogels that integrate constitutional dynamics for antibacterial action and tissue repair. *iScience*, 29(6), 116107.

Jiang M, et al. (2026) Adipose Stem Cell-Derived Apoptotic Vesicles Attenuate Hypertrophic Scarring by Targeting the CDC20/WNT Signaling Pathway. *Biomedicines*, 14(5).

Massenberg A, et al. (2026) A rapid transfer of virions coated with heparan sulfate from the ECM to CD151 defines an early step in the human papillomavirus infection cascade. *eLife*, 14.

Chen L, et al. (2026) Tyrosine kinase 2 inhibition by GL-V9 treats psoriasiform dermatitis via macrophage-helper T-cell modulation. *British journal of pharmacology*.

Xu C, et al. (2026) HOMER3 drives oral squamous cell carcinoma progression through TRPV6 calcium influx and TUBB3 microtubule stabilization. *Oncogene*, 45(2), 278.

Costa S, et al. (2026) A Novel Microfluidic System for 3D Epidermis and Full-Thickness Skin Growth for Nanoparticle Safety Assessment. *Advanced healthcare materials*, 15(6),

e02518.

Lin X, et al. (2026) UBE2M-mediated EGFR neddylation drives keratinocyte proliferation in psoriasis. *iScience*, 29(5), 115784.

Kwon KC, et al. (2026) Reduction of Ultraviolet- and Heat-Induced Aging Using Betulin-Loaded Arginine-Caprylate Self-Assembly: Randomized Double-Blind Clinical Trials. *Skin research and technology : official journal of International Society for Bioengineering and the Skin (ISBS) [and] International Society for Digital Imaging of Skin (ISDIS) [and] International Society for Skin Imaging (ISSI)*, 32(5), e70361.

Becker R, et al. (2026) STARR-CRAAVT: A platform to identify cell type-specific regulatory elements for next-generation gene therapy. *iScience*, 29(4), 115469.

Zhou X, et al. (2026) Polyphyllin I mitigates psoriasiform inflammation and prevents relapse by modulating CLEC7A and inhibiting pyroptosis. *Phytomedicine : international journal of phytotherapy and phytopharmacology*, 150, 157658.

Yang B, et al. (2026) Identification of PI3K/AKT/mTOR-related genes as diagnostic biomarkers for cutaneous squamous cell carcinoma. *Biochemistry and biophysics reports*, 45, 102355.