

Resource Summary Report

Generated by [NIF](#) on Sep 12, 2026

CAL-27

RRID:CVCL_1107

Type: Cell Line

Proper Citation

RRID:CVCL_1107

Cell Line Information

URL: https://web.expasy.org/cellosaurus/CVCL_1107

Proper Citation: RRID:CVCL_1107

Description: Cell line CAL-27 is a Cancer cell line with a species of origin Homo sapiens (Human)

Sex: Male

Disease: Tongue adenosquamous carcinoma

Defining Citation: [PMID:2145926](#), [PMID:2440566](#), [PMID:3181269](#), [PMID:19631575](#), [PMID:20014447](#), [PMID:20164919](#), [PMID:21868764](#), [PMID:22460905](#), [PMID:24201445](#), [PMID:25275298](#), [PMID:25485619](#), [PMID:25877200](#), [PMID:25888065](#), [PMID:26589293](#), [PMID:27108184](#), [PMID:27397505](#), [PMID:28196595](#), [PMID:28476783](#), [PMID:29156801](#), [PMID:29770536](#), [PMID:30894373](#), [PMID:30971826](#), [PMID:31068700](#), [PMID:31978347](#), [PMID:34977030](#), [PMID:35839778](#), [PMID:36912284](#)

Comments: Population: Caucasian., Part of: OPC-22 oral and pharyngeal cancer cell line panel., Part of: MD Anderson Cell Lines Project., Part of: KuDOS 95 cell line panel., Part of: COSMIC cell lines project., Part of: Cancer Dependency Map project (DepMap) (includes Cancer Cell Line Encyclopedia - CCLE).

Category: Cancer cell line

Organism: Homo sapiens (Human)

Name: CAL-27

Synonyms: Cal-27, CAL 27, Cal 27, CAL27, Cal27, CAL-SCC-27, Centre Antoine Lacassagne-27

Cross References: BTO:BTO_0000921, CLO:CLO_0002178, CLO:CLO_0002182, EFO:EFO_0006366, ArrayExpress:E-MTAB-783, ArrayExpress:E-MTAB-2706,

ArrayExpress:E-MTAB-2770, ArrayExpress:E-MTAB-3610, ATCC:CRL-2095, BCRJ:0326, BioGRID_ORCS_Cell_line:336, BioSample:SAMN03471886, BioSample:SAMN10987905, cancercellines:CVCL_1107, CCRID:1101HUM-PUMC000338, CCRID:4201HUM-CCTCC00248, CCTCC:GDC0248, Cell_Model_Passport:SIDM00937, ChEMBL-Cells:ChEMBL3308098, ChEMBL-Targets:ChEMBL1075408, CLS:305029, Cosmic:686972, Cosmic:910916, Cosmic:1006469, Cosmic:1017793, Cosmic:1041674, Cosmic:1339913, Cosmic:1466800, Cosmic:1530734, Cosmic:1752762, Cosmic:2043896, Cosmic:2131842, Cosmic:2296292, Cosmic-CLP:910916, DepMap:ACH-000832, DSMZ:ACC-446, DSMZCellDive:ACC-446, EGA:EGAS00001000610, EGA:EGAS00001000978, GDSC:910916, GEO:GSM422868, GEO:GSM423671, GEO:GSM886907, GEO:GSM887972, GEO:GSM1374427, GEO:GSM1374428, GEO:GSM1519074, GEO:GSM1519075, GEO:GSM1519076, GEO:GSM1669648, IARC_TP53:17482, IGRhCellID:CAL27%20GSE9585, LiGeA:CCLE_698, LINCS_LDP:LCL-1215, PharmacDB:CAL27_168_2019, PRIDE:PXD002132, PRIDE:PXD028810, PRIDE:PXD029420, PRIDE:PXD030304, Progenetix:CVCL_1107, PubChem_Cell_line:CVCL_1107, Wikidata:Q54808394

ID: CVCL_1107

Record Creation Time: 20220427T215439+0000

Record Last Update: 20260905T174513+0000

Ratings and Alerts

No rating or validation information has been found for CAL-27.

No alerts have been found for CAL-27.

Data and Source Information

Source: [Cellosaurus](#)

Usage and Citation Metrics

We found 368 mentions in open access literature.

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

Hoang TS, et al. (2026) Genome-wide CRISPR Screening Reveals a PKA-Driven Resistance Mechanism to Metformin for Oral Cancer Prevention That Can Be Exploited by Combination with NSAIDs. Cancer prevention research (Philadelphia, Pa.), 19(2), 79.

Tuohuti A, et al. (2026) MTHFD2-Mediated Ubiquitination and Degradation of FOXO1 Promote Tongue Squamous Cell Carcinoma Progression. Molecular cancer research : MCR, 24(4), 270.

Zhang Y, et al. (2026) Nociceptive neurons protect cancer cells against oxidative stress. Cell reports, 45(3), 117086.

Li M, et al. (2026) An exosome-biomimetic photothermal nanocarrier for IGF2BP2 siRNA delivery and enhanced ferroptosis in head and neck squamous cell carcinoma. *Materials today. Bio*, 37, 102999.

Wang Q, et al. (2026) Androgen Receptor Signaling Induces CD8+ T-cell Dysfunction That Is Reversed by Androgen Deprivation Therapy in Male Head and Neck Squamous Cell Carcinoma. *Cancer research*, 86(9), 2286.

Li H, et al. (2026) pH/ROS-Responsive Injectable Hydrogel Co-Loaded with B7-H3 Blocker and NETs Suppressor Boosts OSCC Synergistic Immunotherapy. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 13(20), e15431.

Xu W, et al. (2026) PARD6G mediates resistance to PD-1 immune checkpoint blockade in head and neck squamous cell carcinoma. *International immunopharmacology*, 184, 116949.

Zhao W, et al. (2026) Astragaloside IV represses the immune evasion and acidic microenvironment of oral squamous cell carcinoma. *Cellular & molecular biology letters*, 31(1).

Jiang H, et al. (2026) Stiffness-related stress granules promote the metastasis of early-stage oral squamous cell carcinoma via anoikis resistance. *Cellular oncology (Dordrecht, Netherlands)*, 49(3).

Du Y, et al. (2026) Maackia amurensis seed lectin inhibits oral squamous cell carcinoma tumorigenesis by suppressing N6-methyladenosine modification-mediated SRY-box transcription factor 2 expression. *The Journal of international medical research*, 54(6), 3000605261457780.

Lin WW, et al. (2026) Design and Synthesis of N-Heteroacridone Derivatives and Their Ferroptosis-Inducing Activity Against Human Melanoma. *ChemMedChem*, 21(11), e202501070.

Nguyen TT, et al. (2026) NN-01-195, a Novel Conjugate of HSP90 and AURKA Inhibitors, Effectively Targets Solid Tumors. *Molecular cancer therapeutics*, 25(8), 1231.

Ding Z, et al. (2026) TRAPPC4 Promotes GPX4 Stability to Drive Ferroptosis Resistance and Tumor Progression in Head and Neck Squamous Cell Carcinoma. *Cancer research*, 86(14), 3436.

Capik O, et al. (2026) CCL26-Mediated Modulation of Endothelial Secretome by Hypoxia-Induced Tumor-Derived Exosomes Enhances Metastatic Progression in Head and Neck Cancer. *Head & neck*, 48(9), 2377.

Hu X, et al. (2026) Immune gene diversity and STING1 variants in shaping cancer immunity across different genetic ancestry populations. *Cell reports*, 45(2), 116882.

Navarro-L??rida I, et al. (2026) Loss of G??q reshapes fibroblast traits and drives tumor-stroma remodeling in oral cancer progression. *EMBO reports*, 27(10), 2639.

Liu W, et al. (2026) DDX24 exacerbates inflammation-induced immunosuppression in oral squamous cell carcinoma progression through IL-17 signaling pathway. *Archives of oral*

biology, 188, 106639.

Thangaraj JL, et al. (2026) Improved expansion of peripheral blood and iPSC-derived natural killer cells for clinical applications. *Cell reports methods*, 6(6), 101422.

Ai ZE, et al. (2026) Targeting ADAR1 p150 triggers tumor inhibition and antitumor immunity to overcome immunotherapy resistance. *iScience*, 29(6), 115978.

Arkfeld E, et al. (2026) Whole-cell particle-based digital twin simulations from 4D lattice light-sheet microscopy data. *Cell*, 189(15), 4581.