SW756

305588

GENERAL INFORMATION

Description

SW756 is a human cervical carcinoma cell line derived from a primary squamous cell carcinoma of the cervix in an adult female. It was included in early comprehensive cell line characterization efforts and has been validated as free from HeLa contamination based on glucose-6-phosphate dehydrogenase (G6PD) isoenzyme typing, which confirmed it to be type B, unlike HeLa cells, which are type A. This ensures its authenticity as a distinct cervical cancer model.
SW756 is classified as a squamous cell carcinoma and has been used in various genomic and proteomic profiling studies, including large-scale pharmacogenomic and functional genomics datasets. In proteomic profiling efforts such as the ProCan-DepMapSanger dataset, SW756 contributes to a broader understanding of protein expression regulation, particularly in relation to post-transcriptional modifications and drug response correlations. Such datasets have shown that proteomic data from SW756, like other cell lines, can reveal patterns of lineage-specific expression and regulatory mechanisms that are not always evident at the transcriptomic level, highlighting its utility in integrated multi-omic analyses.

Tissue	Uterus, cervix
Disease	Squamous cell carcinoma

Synonyms

- SW-756
- SW 756

CLASSIFICATION

Organism	Human
Sex	Female
Growth properties	Adherent
Biosafety level	1

CHARACTERISTICS

Doubling time	1.6 days

IDENTIFIERS

Citation

SW756 (Cytion catalog number 305588)

NCBI TaxID	9606
Cellosaurus	CVCL_1727

EXPRESSION AND SUSCEPTIBILITY

Mutational profile

Mutation: p.Gly12Cys, Heterozygous

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HANDLING AND CULTURE

Culture medium

DMEM, w: 4.5 g/L Glucose, w: 4 mM L-Glutamine, w: 3.7 g/L NaHCO3, w: 1.0 mM Sodium pyruvate (Cytion article number 820300a)

Incubation atmosphere	37°C, 5% CO_2, humidified atmosphere.

Supplements

Supplement the medium with 10% FBS

Dissociation reagent	Accutase

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 200 x g for 5 minutes, carefully discard the supernatant containing freezing medium.
Follow the procedure described under Post-Thaw Recovery

QUALITY CONTROL AND CRYOPRESERVATION

Freeze medium	As a cryopreservation medium, we use complete growth medium + 10% DMSO for adequate post-thaw viability.

Storage conditions

For long-term preservation, place vials in vapor-phase liquid nitrogen at about −150 to −196 °C. Storage at −80 °C is acceptable only as a short interim step before transfer to liquid nitrogen.

Shipping conditions

Cryopreserved cell lines are shipped on dry ice in validated, insulated packaging with sufficient refrigerant to maintain approximately −78 °C throughout transit. On receipt, inspect the container immediately and transfer vials without delay to appropriate storage.

DONOR

Donor age	46 years
Ethnicity	Caucasian

LEGAL AND SAFETY

Safety precautions

When planning to store a cryovial in liquid nitrogen for future thawing, it is mandatory to adhere to stringent safety measures. Appropriate protective gloves and clothing are essential, and the use of a face mask or safety goggles is required during the transfer of frozen samples to or from the liquid nitrogen tank. This is to mitigate the risk of injury from potential cryovial explosions upon removal, which can result in the projection of sharp fragments.

Warranty

At Cytion, we stand behind the quality and viability of our products.
We guarantee that our cells will be viable at the start of culture for
60 days after shipment from our facilities.
We assure that all materials conform to the specifications described in the
Certificate of Analysis and/or Product Sheet.
For full details, please refer to our
Warranty Statement.

Material Transfer Agreement required	Yes

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