Product sheet

CT26-Luc Cells | 305646

General information

Organism	Mouse
Tissue	Colon
Disease	Colon adenocarcinoma
Synonyms	Luciferase Reporter CT26 Cell Line

Characteristics

Breed/Subspecies	BALB/c
Gender	Female
Morphology	Fibroblast
Growth properties	Adherent

Regulatory Data

Citation	CT26-Luc (Cytion catalog number 305646)
Biosafety level	1
NCBI_TaxID	10090
CellosaurusAccession	CVCL_E3H3
GMO Status	GMO-S1: This CT26 colon carcinoma derivative contains a lentiviral-Luc reporter cassette for bioluminescent tumor monitoring. This classification applies only within Germany and may differ elsewhere.

Biomolecular Data

Mutational profile	Mutation: p.Gly12Asp, Homozygous

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Handling

Doubling time	24-48 hours
Freeze medium	As a cryopreservation medium, we use complete growth medium + 10% DMSO for adequate post-thaw viability.
Thawing and Culturing Cells	1. Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit. 2. 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. 3. 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. 4. Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening. 5. 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. 6. Centrifuge the mixture at 200 x g for 5 minutes, carefully discard the supernatant containing freezing medium. 7. Follow the procedure described under Post-Thaw Recovery
Incubation Atmosphere	37°C, 5% CO_2, humidified atmosphere.
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.
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.

Quality Control & Molecular Analysis