Menschliche Melanozyten, adulte

300694

ALLGEMEINE INFORMATIONEN

Beschreibung

Human Melanocytes, adult are primary pigment-producing melanocytes isolated from adult human skin (epidermis). They are used to study melanogenesis, pigmentation disorders, UV/photobiology, and melanoma biology.

Gewebe	Skin (epidermis)
Krankheit	Normal

Anwendungen

Melanogenesis and pigmentation research; UV/photobiology; melanoma-related studies

KLASSIFIZIERUNG

Organismus	Mensch
Wachstumseigenschaften	Anhänger
Biologische Sicherheitsstufe	1

MERKMALE

Morphologie	Dendritic / bipolar
Zelltyp	Melanocyte
Verdopplungszeit	Approximately 48-72 hours

BEZEICHNER

Quellenangabe

Human Melanocytes, adult (Cytion catalog number 300694)

NCBI-Steuer-ID	9606

HANDHABUNG UND KULTUR

Nährmedium

Melanocyte Growth Medium

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

Nahrungsergänzungsmittel

Melanocyte growth supplements (e.g., bovine pituitary extract, growth factors); serum as per medium

Dissoziationsreagenz	Trypsin-EDTA or Accutase

Subkultivierung

At 70-80% confluence, wash with PBS, detach with Trypsin-EDTA or Accutase, neutralize, centrifuge at 300xg for 3 min, and reseed into fresh medium.

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Split-Verhältnis	1:2 to 1:3
Aussaatdichte	2.5-5 x 10^3 cells/cm2
Flüssigkeitswechsel	Every 2-3 days

Auftauen und Kultivierung

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

QUALITÄTSKONTROLLE UND KRYOKONSERVIERUNG

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

Lagerbedingungen

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.

Versandbedingungen

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.

RECHTLICHES UND SICHERHEIT

Sicherheitshinweise

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.

Garantie

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.

Materialübertragungsvereinbarung erforderlich	Yes

PRODUKTDETAILS

Zusammensetzungstabelle