CHO-HER2 Vidutinis–aukštas

305413MH

BENDRA INFORMACIJA

Aprašymas

Disclaimer: The prices displayed for cell lines are exclusively for academic/not-for-profit customers. For commercial entitites the price is approximately €6,250.
If you represent a commercial entity or are unsure which category applies, please
contact us.
The CHO-HER2-Medium-high cell line is a stable recombinant CHO (Chinese Hamster Ovary) cell line that expresses the HER2 receptor at a medium-high level, approximately 13,000 molecules per cell. This cell line was developed using an innovative landing pad technology, ensuring the HER2 gene's targeted integration at a specific, pre-validated genomic locus. HER2, also known as ERBB2 or CD340, is a member of the epidermal growth factor receptor (EGFR) family and plays a critical role in regulating cell growth and differentiation. It is a significant biomarker and target in breast and ovarian cancers, where its overexpression is associated with increased tumor aggressiveness and poorer patient outcomes. The expression of CXCR7 in this cell line was confirmed using flow cytometry.

Audinys	Ovary
Liga	Chinese hamster ovary, non-neoplastic; genetically engineered for HER2 (ErbB2/CD340) surface expression (medium-high expression level)

Paraiškos

Antibody screening; ADCC/CDC assays; HER2-targeted therapy development; breast/gastric cancer research; flow cytometry

Sinonimai

- CHO-HER2

KLASIFIKACIJA

Organizmas	Kinijos žiurkėnas
Seksas	Moteris
Augimo savybės	Prisijungęs
GMO statusas	GMO-S1

Išsami informacija apie GMO statusą

GMO-S1: This CHO derivative contains a medium-to-high HER2 expression construct for evaluating HER2-targeted therapeutics. This classification applies only within Germany and may differ elsewhere.

Biologinio saugumo lygis	1

CHARAKTERISTIKOS

Morfologija	Epithelial-like
Ląstelių tipas	Epithelial cells
Laikas, per kurį skaičius padvigubėja	approx. 14-16 hours

Cytion GmbH
Nikola-Tesla-Str. 3
69124 Heidelberg
Tel: +49 (0)6221 405780
info@cytion.com
cytion.com

Registered office Heidelberg
VAT ID: DE283292917
Local court Mannheim - HRB 714394
CEO / Geschäftsführer: Jonathan Steubing

Banking information
Sparkasse Heidelberg
IBAN: DE35 6725 0020 0009 2076 86
BIC: SOLADES1HDB

IDENTIFIKATORIAI

Nuoroda

CHO-HER2 Medium-high (Cytion catalog number 305413MH)

NCBI mokesčių identifikavimo kodas	10029
Cellosaurus	CVCL_A8W7

IŠRAIŠKA IR JAUTRUMAS

Išreikšti receptoriai

HER2

LAIKYMAS IR AUGINIMAS

Maitinamoji terpė

Ham's F12, w: 1.0 mM stable Glutamine, w: 1.0 mM Sodium pyruvate, w: 1.1 g/L NaHCO3 (Cytion article number 820600a)

Inkubacijos aplinka	37°C, 5% CO_2, humidified atmosphere.

Maisto papildai

Supplement the medium with 10% FBS. Add Geneticin (G418-Sulfat) to achieve a final concentration of 0.5 mg/mL.

Disociacijos reagentas	Trypsin-EDTA

Subkultūrinis auginimas

For routine adherent cell culture: Aspirate the old culture medium from the adherent cells, and wash them with PBS to remove any remaining medium. After aspirating the PBS, add the appropriate volume of Trypsin/EDTA solution based on the culture vessel size (e.g., 1 ml for a T25 flask, 3 ml for a T75 flask) and incubate at room temperature or 37°C until the cells detach (5-10 minutes). Monitor detachment under a microscope, and gently tap the vessel if necessary to release the cells. Once detached, add complete medium to inactivate the Trypsin/EDTA, gently resuspend the cells, and transfer an aliquot of the cell suspension into a new culture vessel containing fresh medium. Place the vessel in an incubator set to 37°C with 5% CO_2, and change the medium every 2-3 days.

Skaidymo santykis	1 to 5
Sėjos tankis	2 to 5 x 10^4 cells/cm^2
Skysčių atnaujinimas	2 to 3 times per week
Atkūrimas po atšilimo	After thawing, split the cells at a ratio of 1:2 to 1:3 in T25 flasks and allow the cells to recover from the freezing process and to adhere (for adherent cultures) for at least 24 hours.

Atšildymas ir auginimas

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 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

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KOKYBĖS KONTROLĖ IR KRIOKONSERVAVIMAS

Sterilumas

Mycoplasma contamination is excluded using both PCR-based assays and luminescence-based mycoplasma detection methods.
To ensure there is no bacterial, fungal, or yeast contamination, cell cultures are subjected to daily visual inspections.

Šaldymo terpė	As a cryopreservation medium, we use complete growth medium (including FBS) + 10% DMSO for adequate post-thaw viability, or CM-1 (Cytion catalog number 800100), which includes optimized osmoprotectants and metabolic stabilizers to enhance recovery and reduce cryo-induced stress.

Laikymo sąlygos

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.

Pristatymo sąlygos

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.

DONORAS

Donoro amžius	Adult

TEISINIAI IR SAUGOS KLAUSIMAI

Saugos priemonės

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.

Atsakomybės apribojimas

Our cells are provided for in vitro laboratory research purposes exclusively and are not intended for clinical or diagnostic use, nor are they to be administered to humans or used for veterinary purposes. Users must adhere to all applicable guidelines and regulations for the handling and use of these cells in a research setting.

Garantija

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.

Taikomos susitarimai su trečiosiomis šalimis	Yes