CHO-HER2 □□□

305413MH

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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.

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

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

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- CHO-HER2

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GMO□□□	GMO-S1

GMO□□□□□□□□□□□□□

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.

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□□□	Epithelial-like
□□□□□	Epithelial cells
□□□□	approx. 14-16 hours

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

NCBI □□□□□	10029
□□□□□□	CVCL_A8W7

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HER2

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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)

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

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

□□□□	Trypsin-EDTA

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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.

□□□□	1 to 5
□□□□	2 to 5 x 10^4 cells/cm^2
□□□□□	2 to 3 times per week
□□□□□□	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.

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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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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.

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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.

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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.

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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.

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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.

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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.

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