

CHO-CD20 | 305976

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Description

CHO-CD20 is a CHO cell line expressing the CD20 protein. The cells are derived from the CHO-K1 cell line and are stably transfected with a CD20 cDNA construct. The cells are grown in DMEM supplemented with 10% fetal bovine serum (FBS) and 100 µg/ml penicillin, 100 µg/ml streptomycin, and 100 µg/ml neomycin. The cells are typically used for the production of monoclonal antibodies against CD20.

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Organism CHO

Tissue CHO

Disease CD20 (MS4A1)

Applications ADCC/CDC, CD20

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Age CHO

Gender CHO

Morphology CHO

Cell type CHO

Growth properties CHO

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Citation CHO-CD20 (CHO) Cytion: 305976

Biosafety level 1

NCBI_TaxID 10029

CellosaurusAccession CVCL_A8V4

Product sheet

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GMO Status GMO-S1: CHO CHO CD20

Receptors expressed

Culture Medium DMEM: DMEM:Ham's F12 (1:1) 3.1 2.5 15
CHO A (InSCREENeX InSCREENeX INS-ME-1039)

Supplements 5 FBS (G418-Sulfat) 0.5

Dissociation Reagent

Doubling time 14-16

Subculturing

Split ratio 1 5

Seeding density 2 5 $\frac{4}{1000}$

Fluid renewal 2 3

Post-Thaw Recovery 1:2 1:3 T25

Freeze medium (FBS) + 10% DMSO

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Thawing and Culturing Cells

1. Thaw the vial rapidly in a 37°C water bath. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 10 ml of medium.
3. Seed the cells into a T75 flask containing 50 ml of medium. The final cell concentration should be approximately 1.5 x 10⁶ cells/ml.
4. Incubate the cells at 37°C in a humidified atmosphere of 5% CO₂.
5. Monitor the cell growth and confluency. Once the cells reach 70-80% confluency, they can be harvested.
6. Harvest the cells by trypsinization. Add 1 ml of trypsin to the flask and incubate for 2-3 minutes.
7. Add 10 ml of medium to stop the trypsinization. Pipette the cells into a centrifuge tube.
8. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 10 ml of medium.

Incubation Atmosphere

37°C, 5% CO₂, humidified atmosphere

Shipping Conditions

Cells are shipped in a dry ice container at -150°C to -196°C.

Storage Conditions

Cells should be stored at -150°C to -196°C in a liquid nitrogen vapor phase.

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Sterility

The cells are provided in a sterile, cryoprotected medium. The medium contains antibiotics (penicillin, streptomycin, and fungicide) to prevent contamination. The cells are free of mycoplasma and other contaminants.