

CHO-CTLA4 | 305414

General Information

Description

CHO-CTLA4 is a CHO cell line expressing the human CTLA-4 protein. The cells are derived from CHO (Chinese hamster ovary) cells and are used for the production of recombinant proteins. The cells are characterized by their high growth rate and ability to produce large quantities of protein. The CTLA-4 protein is a member of the B7 family and plays a key role in regulating the immune response. The cells are used for the production of CTLA-4 protein for research and clinical applications.

Organism *Homo sapiens*

Tissue Tissue culture

Disease CTLA-4

Applications Research, protein production, immunology

Characteristics

Age 1-2 months

Gender Male

Morphology Epithelial

Cell type CHO

Growth properties Adherent

Identification

Citation CHO-CTLA4 (ATCC CRL-2739) | 305414

Biosafety level 1

NCBI_TaxID 10029

CellosaurusAccession CVCL_A8V8

CHO-CTLA4 | 305414

GMO Status GMO-S1: CHO CHO CTLA-4

Receptors expressed CTLA4 (CD152)

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 ⁴ 1000

Fluid renewal 2 3

Post-Thaw Recovery 1:2 1:3 T25

Freeze medium (FBS) + 10% DMSO

CHO-CTLA4 | 305414

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 × g for 3 minutes. Resuspend the cells in 10 mL of pre-warmed medium.
3. Seed the cells into a T75 flask containing 37 mL of pre-warmed medium.
4. Incubate the cells at 37°C in a humidified atmosphere of 5% CO₂. The cells should reach 70% confluency within 7-10 days.
5. Harvest the cells by trypsinization. Seed 15 × 10⁶ cells into 8 T75 flasks.
6. Harvest the cells by trypsinization. Seed 300 × 10⁶ cells into 3 T75 flasks.
7. Harvest the cells by trypsinization. Seed 10 × 10⁶ cells into 10 T75 flasks.
8. Harvest the cells by trypsinization. Seed 10 × 10⁶ cells into 10 T75 flasks.

Incubation Atmosphere 37°C, 5% CO₂

Flask Coating No coating

Freezing Procedure Harvest cells by trypsinization. Seed 10 × 10⁶ cells into 10 T75 flasks. Freeze cells at -78°C.

Shipping Conditions Ship cells at -78°C.

Storage Conditions Store cells at -150°C to -196°C.

CHO-CTLA4 / CHO-CTLA4 / HLA

Sterility The cells are free of mycoplasma contamination (PCR). The cells are free of endotoxins.