

Product sheet

CHO-CTLA4 | 305414

CHO-CTLA4

Description

CHO-CTLA4 is a CHO cell line expressing the human CTLA4 protein. The cells are derived from CHO (Chinese hamster ovary) cells and are stably transfected with a construct encoding the human CTLA4 protein. The cells are grown in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. The cells are typically used for the production of antibodies against CTLA4.

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Organism CHO

Tissue CHO

CHO-CTLA4

Age CHO

Gender CHO

Morphology CHO

Growth properties CHO

CHO-CTLA4

Citation CHO-CTLA4 (CHO) Cytion 305414

Biosafety level 1

NCBI_TaxID 10029

GMO Status GMO-S1: CHO cells expressing CTLA4

CHO-CTLA4

Receptors expressed CTLA4 (CD152)

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Culture Medium
DMEM:Ham's F12 (1:1), w: 3.1 g/L Glucose, w: 2.5 mM L-Glutamine, w: 15 mM HEPES, w: 0.5 mM β-mercaptoethanol (820400a)
CHO Growth Medium A (InSCREENeX; InSCREENeX INS-ME-1039)

Supplements
5% FBS. Geneticin (G418-Sulfat) 0.5 mg/ml

Dissociation Reagent
Trypsin-EDTA

Subculturing
Cells are cultured in DMEM:Ham's F12 (1:1) supplemented with 15 mM HEPES, 0.5 mM β-mercaptoethanol, and 5% FBS in 75 cm² flasks at 37°C, 5% CO₂. Cells are passaged every 2-3 weeks.

Fluid renewal
2-3 times per week

Post-Thaw Recovery
After thawing, cells are seeded into 125 cm² flasks at a density of 1:2 or 1:3 in DMEM:Ham's F12 (1:1) supplemented with 15 mM HEPES, 0.5 mM β-mercaptoethanol, and 5% FBS. Cells are cultured at 37°C, 5% CO₂ until they reach confluence.

Freeze medium
DMEM:Ham's F12 (1:1) supplemented with 15 mM HEPES, 0.5 mM β-mercaptoethanol, 5% FBS, and 10% DMSO.

- Thawing and Culturing Cells**
1. Thaw cells rapidly in a 37°C water bath.
 2. Dilute cells into DMEM:Ham's F12 (1:1) supplemented with 15 mM HEPES, 0.5 mM β-mercaptoethanol, and 5% FBS.
 3. Seed cells into 125 cm² flasks at a density of 1:2 or 1:3.
 4. Culture cells at 37°C, 5% CO₂ until they reach 70% confluence.
 5. Harvest cells by trypsinization and centrifugation at 300 x g for 3 minutes.
 6. Resuspend cells in DMEM:Ham's F12 (1:1) supplemented with 15 mM HEPES, 0.5 mM β-mercaptoethanol, and 5% FBS.
 7. Seed cells into 10 cm² flasks at a density of 1:2 or 1:3.
 8. Culture cells at 37°C, 5% CO₂ until they reach confluence.

