

CHO-FOLR1 | 305416

CHO-FOLR1

Description

CHO-FOLR1 is a CHO cell line expressing the Folate Receptor 1 (FOLR1) protein. The cells are derived from CHO-K1 cells and are stably transfected with the FOLR1 gene. The cells are characterized by their high efficiency in binding and internalizing folic acid and other folate derivatives. They are commonly used in research related to folate metabolism, drug delivery, and cancer therapy.

CHO-FOLR1 cells are derived from CHO (Chinese hamster ovary) cells, which are a widely used model system in cell biology and molecular biology. The FOLR1 protein is a transmembrane protein that binds and transports folate across the cell membrane. Overexpression of FOLR1 in CHO cells allows for the study of folate transport and its role in various cellular processes.

CHO-FOLR1 cells are typically grown in DMEM/F12 medium supplemented with 10% fetal bovine serum (FBS). They are maintained in a humidified atmosphere of 5% CO₂ at 37°C. The cells are characterized by their high efficiency in binding and internalizing folic acid and other folate derivatives.

Organism

CHO

Tissue

CHO

Disease

None

Applications

CHO-FOLR1 cells are used for studying folate transport and its role in various cellular processes. They are also used for the production of folate-conjugated antibodies and for the study of folate metabolism in cancer cells.

CHO-FOLR1

Age

CHO

Gender

CHO

Morphology

CHO

Cell type

CHO

Growth properties

CHO

CHO-FOLR1

Citation

CHO-FOLR1 (CHO-FOLR1) Cytion 305416

Biosafety level

1

NCBI_TaxID

10029

CellosaurusAccession

CVCL_A8W5

Product sheet

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GMO Status GMO-S1: CHO cell line expressing human FOLR1 (FRα) cDNA (FBP)

CHO-FOLR1 (FRα) cDNA (FBP)

Receptors expressed FOLR1 (FRα) cDNA (FBP)

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

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

Dissociation Reagent EDTA

Doubling time 14–16 h

Subculturing Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 5% FBS and 0.5 mg/ml Geneticin (G418-Sulfat) in the presence of 5% CO₂. Cells are passaged 2–3 times.

Split ratio 1:5

Seeding density 2 × 10⁵ cells/cm²

Fluid renewal 2–3 times per week

Post-Thaw Recovery Cells are thawed in DMEM:Ham's F12 (1:1) supplemented with 5% FBS and 0.5 mg/ml Geneticin (G418-Sulfat) in the presence of 5% CO₂. Cells are passaged 2–3 times.

Freeze medium DMEM:Ham's F12 (1:1) supplemented with 5% FBS and 0.5 mg/ml Geneticin (G418-Sulfat) in the presence of 5% CO₂.

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**Thawing and
Culturing Cells**

1. 将细胞悬液缓慢加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
2. 待细胞贴壁后，将培养基更换为新鲜培养基，继续培养。
3. 当细胞密度达到80%左右时，进行传代培养。
4. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
5. 待细胞贴壁后，将培养基更换为新鲜培养基，继续培养。
6. 当细胞密度达到80%左右时，进行传代培养。
7. 将细胞悬液加入含有培养基的细胞培养瓶中，轻轻混匀，然后将培养瓶置于37°C CO₂培养箱中培养。
8. 待细胞贴壁后，将培养基更换为新鲜培养基，继续培养。

**Incubation
Atmosphere**

37°C, 5% CO₂, 饱和湿度

Flask Coating

无需涂层

**Freezing
Procedure**

将细胞悬液加入含有冻存液的冻存管中，轻轻混匀，然后将冻存管置于-80°C冰箱中冻存。

**Shipping
Conditions**

将细胞悬液加入含有冻存液的冻存管中，轻轻混匀，然后将冻存管置于-80°C冰箱中冻存。

**Storage
Conditions**

将细胞悬液加入含有冻存液的冻存管中，轻轻混匀，然后将冻存管置于-80°C冰箱中冻存。

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Sterility

本产品经过严格的无菌处理，确保细胞在运输和储存过程中保持无菌状态。本产品适用于PCR等分子生物学实验。