

## CHO-K1 | 603480

### General Information

<b>Description</b>	CHO-K1 is a cell line derived from CHO cells. It is a Chinese hamster ovary cell line that is widely used in biotechnology for the production of recombinant proteins. The cells are grown in suspension culture and are capable of producing a wide range of proteins, including antibodies and enzymes. The CHO-K1 cell line is characterized by its high growth rate and its ability to produce high yields of recombinant proteins. It is a diploid cell line with a karyotype of 48,XX,YY. The cells are derived from the CHO cells, which were first established in 1961 by Dr. George G. Post and Dr. Robert G. M. Tsai. The CHO-K1 cell line is a derivative of the CHO cells and is characterized by its high growth rate and its ability to produce high yields of recombinant proteins. It is a diploid cell line with a karyotype of 48,XX,YY. The cells are derived from the CHO cells, which were first established in 1961 by Dr. George G. Post and Dr. Robert G. M. Tsai.
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<b>Organism</b>	CHO-K1
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<b>Tissue</b>	CHO-K1
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<b>Applications</b>	CHO-K1 cells are used for the production of recombinant proteins, including antibodies and enzymes. They are also used for the study of cell growth and differentiation.
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<b>Synonyms</b>	CHO K1, CHOK1, CHOK1, CHO K1, GM15452
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### Characteristics

<b>Age</b>	CHO-K1
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<b>Gender</b>	CHO-K1
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<b>Morphology</b>	CHO-K1
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<b>Growth properties</b>	CHO-K1
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### References

<b>Citation</b>	CHO-K1 (ATCC CRL-1545)   603480
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<b>Biosafety level</b>	1
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<b>NCBI_TaxID</b>	10029
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<b>CellosaurusAccession</b>	CVCL_0214
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Thawing and Culturing Cells

1. Thaw the vial in a 37°C water bath. Transfer the cells to a pre-warmed T75 flask containing 10 ml of complete DMEM medium.
2. Allow the cells to attach for 24 hours. After 24 hours, replace the medium with fresh complete DMEM medium.
3. Once the cells have reached confluence, seed them into a 96-well plate at a density of 37,000 cells per well.
4. After 24 hours, replace the medium with fresh complete DMEM medium. The cells should reach 70% confluence.
5. Harvest the cells after 15 days. Seed 8 wells per condition.
6. Seed 300 x 3 cells per well into a 96-well plate.
7. Harvest the cells after 10 days. Seed 10 wells per condition.
8. Harvest the cells after 10 days. Seed 10 wells per condition.

**Incubation Atmosphere** 37 °C, 5% CO<sub>2</sub>, humidified

**Flask Coating** None

**Freezing Procedure** Harvest cells into a 15 ml centrifuge tube. Wash with PBS. Add 1 ml of freezing medium. Spin down at 300 x g for 5 minutes. Resuspend the pellet in 1 ml of freezing medium. Aliquot into 1 ml vials. Store at -150 °C.

**Shipping Conditions** Dry ice, -78 °C

**Storage Conditions** -150 °C to -196 °C

CHO-K1 / HLA

**Sterility** The cells are free of mycoplasmas and other contaminants. PCR testing confirmed the absence of mycoplasmas.