

CHO-CXCR7 CHO-CXCR7 | 305412MH

General information

Description	CHO-CXCR7-Medium-high is a CHO cell line (Chinese hamster ovary) expressing CXCR7 (ACKR3) surface expression (medium-high expression level). CHO-CXCR7-Medium-high cells are derived from CHO cells (Chinese hamster ovary) expressing CXCR7 (ACKR3) surface expression (medium-high expression level). CHO-CXCR7-Medium-high cells are derived from CHO cells (Chinese hamster ovary) expressing CXCR7 (ACKR3) surface expression (medium-high expression level).
Organism	CHO
Tissue	CHO
Disease	Chinese hamster ovary, non-neoplastic; genetically engineered for CXCR7 (ACKR3) surface expression (medium-high expression level)
Applications	Antibody screening; CXCR7-targeted therapy development; chemokine receptor biology; tumor microenvironment research; flow cytometry
Synonyms	CHO-CXCR7

Cell characteristics

Age	CHO
Gender	CHO
Morphology	CHO
Cell type	Epithelial cells
Growth properties	CHO

Cell culture conditions

Citation	CHO-CXCR7 (ACKR3) (CHO cells expressing CXCR7 (ACKR3) surface expression 305412MH)
Biosafety level	1

Product sheet

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NCBI_TaxID	10029
CellosaurusAccession	CVCL_A8W2
GMO Status	GMO-S1: This CHO cell line contains a construct supporting medium-to-high expression of human CXCR7 for chemokine receptor research. This classification applies only within Germany and may differ elsewhere.
Recombinant proteins	
Receptors expressed	CXCR7 (ACKR3)
Media	
Culture Medium	DMEM: DMEM:Ham's F12 (1:1) 3.1 µg/ml insulin 2.5 µg/ml transferrin 15 µg/ml selenium InSCREENeX InSCREENeX INS-ME-1039
Supplements	5% FBS 100 µg/ml penicillin (G418-resistance) 0.5 µg/ml hygromycin
Dissociation Reagent	Trypsin-EDTA
Doubling time	approx. 14-16 hours
Subculturing	Cells are detached using trypsin-EDTA and resuspended in PBS. Cells are seeded into new flasks.
Split ratio	1 to 5
Seeding density	2 to 5 x 10 ⁴ cells/cm ²
Fluid renewal	2 to 3 times per week
Post-Thaw Recovery	Cells are seeded into flasks at a ratio of 1:2 or 1:3 into T25 flasks. Cells are allowed to recover for 24-48 hours before use.
Freeze medium	DMEM (10% FBS) + 10% DMSO

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**Thawing and
Culturing Cells**

1. Remove the vial from liquid nitrogen storage and allow it to thaw at room temperature.
2. Dilute the cell suspension into 10 ml of pre-warmed complete medium.
3. Seed the cells into a T25 flask.
4. Incubate the cells at 37 °C in 5% CO₂ humidified atmosphere.
5. After 24 hours, check the cell density and passage if necessary.
6. For long-term storage, harvest cells and resuspend in cryopreservation medium.
7. Store cells in liquid nitrogen.
8. Thaw cells and resuspend in complete medium.

**Incubation
Atmosphere**

37°C, 5% CO₂, humidified atmosphere.

**Shipping
Conditions**

Cryopreserved cell lines are shipped on dry ice in validated, insulated packaging with sufficient refrigerant to maintain approximately -78 °C throughout transit. On receipt, inspect the container immediately and transfer vials without delay to appropriate storage.

**Storage
Conditions**

For long-term preservation, place vials in vapor-phase liquid nitrogen at about -150 to -196 °C. Storage at -80 °C is acceptable only as a short interim step before transfer to liquid nitrogen.

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Sterility

Cells are tested for mycoplasma contamination using PCR. Cells are also tested for sterility using a validated method.