

RT-112 | 300324

General Information

Description	RT-112 is a recombinant protein derived from the RT112 cell line, used for research purposes. It is a full-length protein with a His-tag at the C-terminus. Benham et al. 1976, [ref]
Organism	Human
Tissue	Testis
Disease	Testicular germ cell tumor
Synonyms	RT 112, RT112

Characteristics

Age	Not applicable
Gender	Not applicable
Ethnicity	Not applicable
Morphology	Recombinant protein
Growth properties	Not applicable

References and Safety

Citation	RT-112 (Cytion 300324)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_1670

Protein Expression

Protein expression	Produced in HEK293T cells, purified by ion exchange chromatography. Molecular weight: ~100 kDa.
---------------------------	-------------------------------------------------------------------------------------------------

RT-112 | 300324

Isoenzymes G, H, I

MSI-status MSS

Characteristics

Culture Medium RPMI 1640, w: 2.0 mM $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 2.0 g/L NaHCO_3 (Cytion 820700a)

Supplements 10% FBS

Dissociation Reagent Trypsin

Subculturing Cells are cultured in 25 cm² flasks in RPMI 1640 medium supplemented with 10% FBS. Cells are harvested by trypsinization and centrifugation. Cells are resuspended in PBS and counted. Cells are seeded into new flasks at a density of 1 x 10⁶ cells per flask.

Split ratio A ratio of 1:4 to 1:8 is recommended

Seeding density 1 x 10⁶ cells per flask

Fluid renewal 2-3 times per week

Post-Thaw Recovery 50% FBS, 24-48 hours

Freeze medium RPMI 1640 medium supplemented with 10% FBS + 10% DMSO

RT-112 | 300324

Thawing and Culturing Cells

1. Thaw the vial rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature. Transfer the cells to a pre-warmed medium.
2. Centrifuge the cells at 300 x g for 3 minutes. Resuspend the cells in 15 µl of pre-warmed medium.
3. Seed the cells into a 96-well plate (196 µl per well) at a concentration of 100,000 cells per well. Incubate at 37°C with 5% CO₂.
4. After 24 hours, the cells should be at 70% confluency.
5. Harvest the cells using a pipette tip. Transfer the cells to a microcentrifuge tube.
6. Store the cells at -150°C for long-term storage.
7. Thaw the cells rapidly in a water bath at 37°C. Do not allow the cells to reach room temperature.
8. Seed the cells into a 96-well plate (196 µl per well) at a concentration of 100,000 cells per well. Incubate at 37°C with 5% CO₂.

Incubation Atmosphere 37°C, 5% CO₂, humidified air

Flask Coating Cell culture medium, 10 minutes

Freezing Procedure Resuspend cells in 15 µl of freezing medium, transfer to a microcentrifuge tube, store at -78°C.

Shipping Conditions Store at -78°C, use dry ice.

Storage Conditions Store at -150°C for 196 µl per well.

RT-112 / RT-112 / HLA

Sterility The cells are sterile and free of mycoplasmas. PCR screening is recommended.

RT-112 | 300324

STR

Amelogenin: x,y
CSF1PO: 10,11
D13S317: 13,14
D16S539: 11,13
D5S818: 10,13
D7S820: 12,11
TH01: 7
TPOX: 8,11
vWA: 14,17
D3S1358: 15
D21S11: 27,3
D18S51: 15
Penta E: 12,16
Penta D: 10,11
D8S1179: 13,15
FGA: 23

HLA

A*: '26:01:01
B*: 27:05:02
C*: 01:02:01
DRB1*: 01:01:01
DQA1*: 01:01:01
DQB1*: 05:01:01
DPB1*: 01:01:01
E: 01:01:01