

Product sheet

KHOS-312H | 300447

General Information

Description	KHOS-312H is a human embryonic kidney (HEK) 293T cell line that is stably transfected with the human mTOR gene. The cells are grown in DMEM supplemented with 10% fetal bovine serum (FBS) and 1% penicillin-streptomycin. KHOS-312H cells are used for the study of mTOR signaling pathways.
Organism	Human
Tissue	Kidney
Disease	None
Synonyms	KHOS-321H, KHOS312H, KHOS321H

Cell Culture

Age	13 days
Gender	Male
Ethnicity	Caucasian
Morphology	Epithelial cells
Growth properties	Adherent, clonal

References

Citation	KHOS-312H (HEK293T) Cytion 300447
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_2545

Additional Information

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Thawing and Culturing Cells

1. Thaw the cells 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. Seed the cells into a pre-warmed medium. Incubate at 37°C with 5% CO₂ in a humidified atmosphere.
3. Monitor the cells for attachment and growth. Change the medium after 24 hours.
4. Once the cells are established, passage them into fresh medium. Seed at 70% confluency.
5. Use the cells for experiments. Passage every 3-4 days. Seed at 15 x 10⁶ cells per 8 x 10⁶ cm² flask.
6. For long-term storage, harvest the cells and freeze them in a cryoprotective medium. Store at -150°C.
7. Thaw the cells 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.
8. Seed the cells into a pre-warmed medium. Incubate at 37°C with 5% CO₂ in a humidified atmosphere.

Incubation Atmosphere 37°C, 5% CO₂, humidified

Flask Coating Cell culture medium, 10 minutes

Freezing Procedure Harvest cells, resuspend in cryoprotective medium, freeze at -78°C

Shipping Conditions Store at -78°C

Storage Conditions Store at -150°C for 196 days

Genotype / HLA

Sterility Sterile, PCR negative

██████ KHOS-312H | 300447

██████ HLA

A*: 02:11:01

B*: '52:01:01

C*: 12:02:02

DRB1*: '15:02:01G, '16:02:01G

DQA1*: 01:02:02, 01:03:01

DQB1*: 05:02:01, 05:03:01

DPB1*: 02:01:02

E: 01:01:01