

Product sheet

HROG06 | 300933

General information

Description	Human glioblastoma cell line (PD Dr. Michael Linnebacher)
Organism	Human
Tissue	Brain, Glioma
Disease	Glioblastoma (WHO grade IV)

Cell characteristics

Age	53 years
Gender	Male
Ethnicity	German
Morphology	Epithelial cells, high proliferative capacity
Growth properties	Highly proliferative

Identification and safety

Citation	HROG06 (Cytion 300933)
Biosafety level	1
NCBI_TaxID	9606
CellosaurusAccession	CVCL_4U41

Antigen expression and mutational profile

Antigen expression	HLA-A02 +, MHC II - +, HLA-E +, HLA-G +, MIC A +, MIC-B -, ICAM-1 +, GFAP +, BTSC +
Mutational profile	IDH 1 & 2 wt, TP53R273H, R306*, 4q12(PDGFR) amplification, K-Ras wt, B-RAFwt, PTEN(+1 & 126)

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HEK293T

Culture Medium	DMEM:Ham's F12 (1:1), w: 3.1 g/L β -mercaptoethanol, w: 2.5 mM L-glutamine, w: 15 mM HEPES, w: 0.5 mM $\text{CaCl}_2 \cdot \text{H}_2\text{O}$, w: 1.2 g/L NaHCO_3 820400a)
Supplements	β -mercaptoethanol 10% FBS
Dissociation Reagent	β -mercaptoethanol
Doubling time	57 $\pm$ 59 hours
Subculturing	Cells are typically grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β -mercaptoethanol. For subculturing, cells are trypsinized with 0.25% trypsin-EDTA for 3-5 minutes at 37°C. Cells are then washed with PBS and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β -mercaptoethanol. Cells are seeded into new flasks at a density of 1×10^4 cells per flask.
Seeding density	1×10^4 cells per flask
Fluid renewal	3-5 days

Freeze medium β -mercaptoethanol 10%, β -mercaptoethanol 50% β -mercaptoethanol + 40% FBS + 10% DMSO, CM-1 (β -mercaptoethanol Cytion 800100), β -mercaptoethanol

Thawing and Culturing Cells	- Cells are thawed in a water bath at 37°C. Cells are then washed with PBS and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are seeded into new flasks at a density of 1×10^4 cells per flask. - Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are trypsinized with 0.25% trypsin-EDTA for 3-5 minutes at 37°C. Cells are then washed with PBS and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are seeded into new flasks at a density of 1×10^4 cells per flask. - Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are trypsinized with 0.25% trypsin-EDTA for 3-5 minutes at 37°C. Cells are then washed with PBS and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are seeded into new flasks at a density of 1×10^4 cells per flask. - Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are trypsinized with 0.25% trypsin-EDTA for 3-5 minutes at 37°C. Cells are then washed with PBS and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are seeded into new flasks at a density of 1×10^4 cells per flask. - Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are trypsinized with 0.25% trypsin-EDTA for 3-5 minutes at 37°C. Cells are then washed with PBS and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are seeded into new flasks at a density of 1×10^4 cells per flask. - Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are trypsinized with 0.25% trypsin-EDTA for 3-5 minutes at 37°C. Cells are then washed with PBS and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are seeded into new flasks at a density of 1×10^4 cells per flask. - Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are trypsinized with 0.25% trypsin-EDTA for 3-5 minutes at 37°C. Cells are then washed with PBS and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are seeded into new flasks at a density of 1×10^4 cells per flask. - Cells are grown in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are trypsinized with 0.25% trypsin-EDTA for 3-5 minutes at 37°C. Cells are then washed with PBS and resuspended in DMEM:Ham's F12 (1:1) supplemented with 10% FBS and 10% β-mercaptoethanol. Cells are seeded into new flasks at a density of 1×10^4 cells per flask.
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Incubation Atmosphere 37°C, 5% CO₂, 

Flask Coating

Freezing Procedure

Shipping Conditions

Storage Conditions

Sterility

XXXXXX HLA

B*: 08:01:01, 35:01:01

C*: 04:01:01, 07:01:01

DRB1*: '01:01:01, '13:02:01

DQA1*: '01:01:01, '01:02:01

DQB1*: '05:01:01, '06:04:01

DPB1*: '03:01:01, '04:02:01

E: 01:01, 01:06