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Product Sheet

H_Sialyl-Tn-MUC1 (STN-MUC1) CHO-K1 Cell Line

Catalog number: GM-C21376

Version 4.0.26.1112

Specifications

Description	H_Sialyl-Tn-MUC1 (STN-MUC1) CHO-K1 Cell Line is a clonal stable CHO-K1 cell line that constitutively expresses the human ST6GALNAC1 and human MUC1 genes, constructed using lentiviral technology.
Quantity	5E6 Cells per vial,1 mL
Product Format	1 vial of frozen cells
Shipping	Shipped on dry ice
Storage Conditions	Liquid nitrogen immediately upon receipt
Target	Sialyl-Tn-MUC1
Gene ID/Uniprot ID	Q9NSC7-1&P15941-1
Host Cell	CHO-K1
Recovery Medium	F12K+10% FBS+1% P.S
Growth medium	F12K+10% FBS+1% P.S+4 μg/mL Blasticidin+4 μg/mL Puromycin
Note	None
Freezing Medium	90% FBS+10% DMSO
Growth properties	Adherent
Growth Conditions	37°C, 5% CO_2
Mycoplasma Testing	The cell line has been screened to confirm the absence of Mycoplasma species.
Safety considerations	Biosafety Level 2
Note	It is recommended to expand the cell culture and store a minimum of 10 vials at an early passage for potential future use.

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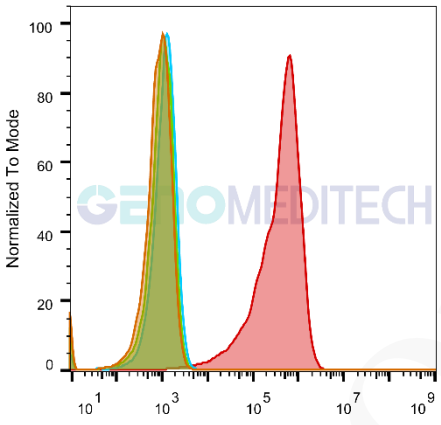
Materials

Reagent	Manufacturer/Catalogue No.
F12K	BOSTER/PYG0036
Fetal Bovine Serum	ExCell/FSP500
Pen/Strep	Thermo/15140-122
Blasticidin	Genomeditech/GM-040404
Puromycin	Genomeditech/GM-040401
Countess 3 Automated Cell Counter	ThermoFisher/A49891
NovoCyte Flow Cytometer	Agilent/NovoCyte 2060R
Anti-STn hIgG1 Reference Antibody (h2G12)	Genomeditech/GM-87835MAB
Anti-MUC1(CD227) hIgG1 Reference Antibody(Gatbio)	Genomeditech/GM-87346MAB
H_MUC1(CD227) CHO-K1 Cell Line	Genomeditech/GM-C19062

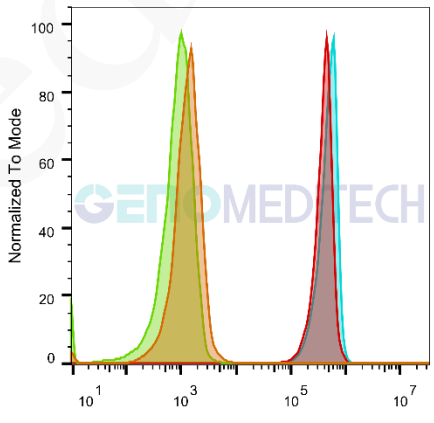
Data

Expression



SampleID	Geometric Mean : R675-H
CHO-K1 Anti-STn+APC 2nd Ab	787
CHO-K1 H_Sialyl-Tn-MUC1 Anti-H_IgG+APC 2nd Ab	918
CHO-K1 H_MUC1(CD227) Anti-STn+APC 2nd Ab	1118
CHO-K1 H_Sialyl-Tn-MUC1 Anti-STn+APC 2nd Ab	349666

H_Sialyl-Tn-MUC1 (STN-MUC1) CHO-K1 Cell Line (Cat. GM-C21376) and H_MUC1(CD227) CHO-K1 Cell Line (Cat. GM-C19062) were determined by flow cytometry using Anti-STn hIgG1 Reference Antibody (h2G12) (Cat. GM-87835MAB).



SampleID	Geometric Mean : R675-H
CHO-K1 Anti-MUC1+APC 2nd Ab	1249
CHO-K1 H_Sialyl-Tn-MUC1 Anti-H_IgG+APC 2nd Ab	777
CHO-K1 H_MUC1(CD227) Anti-MUC1+APC 2nd Ab	373676
CHO-K1 H_Sialyl-Tn-MUC1 Anti-MUC1+APC 2nd Ab	4.53E5

H_Sialyl-Tn-MUC1 (STN-MUC1) CHO-K1 Cell Line (Cat. GM-C21376) and H_MUC1(CD227) CHO-K1 Cell Line(Cat. GM-C19062) were determined by flow cytometry using Anti-MUC1(CD227) hIgG1 Reference Antibody(Gatbio) (Cat. GM-87346MAB).

Cell Recovery

Recovery Medium: F12K+10% FBS+1% P.S

To insure the highest level of viability, thaw the vial and initiate the culture as soon as possible upon receipt. If upon arrival, continued storage of the frozen culture is necessary, it should be stored in liquid nitrogen vapor phase and not at -70°C. Storage at -70°C will result in loss of viability.

a) Thaw the vial by gentle agitation in a 37°C water bath. To reduce the possibility of contamination, keep the O-ring and cap out of the water. Thawing should be rapid (approximately 2 - 3 minutes).
b) Remove the vial from the water bath as soon as the contents are thawed, and decontaminate by dipping in or spraying with 70% ethanol. All of the operations from this point on should be carried out under strict aseptic conditions.
c) Transfer the vial contents to a centrifuge tube containing 5.0 mL complete culture medium and spin at approximately 176 x g for 5 minutes. Discard supernatant.
d) Resuspend cell pellet with the recommended recovery medium. And dispense into appropriate culture dishes.
e) Incubate the culture at 37°C in a suitable incubator. A 5% CO_2 in air atmosphere is recommended if using the medium described on this product sheet.

Cell Freezing

Freezing Medium: 90% FBS+10% DMSO

a) Centrifuge at 176 x g for 3 minutes to collect cells.
b) Resuspend the cells in pre-cooled freezing medium and adjust the cell density to 5E6 cells/mL.
c) Aliquot 1 mL into each vial.
d) Place the vial in a controlled-rate freezing container and store at -80°C for at least 1 day, then transfer to liquid nitrogen as soon as possible.

Cell passage

Growth medium: F12K+10% FBS+1% P.S+4 μg/mL Blasticidin+4 μg/mL Puromycin

For the first 1 to 2 passages post-resuscitation, use the recovery medium. Once the cells have stabilized, switch to a growth medium.

a) Remove and discard culture medium.
b) Briefly rinse the cell layer with PBS to remove all traces of serum that contains trypsin inhibitor.
c) Add 1.0 mL of 0.25% (w/v) Trypsin-EDTA solution to dish and observe cells under an inverted microscope until cell layer is dispersed (usually within 2 to 3 minutes at 37°C).
d) Note: To avoid clumping do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.
e) Add 2.0 mL of growth medium to mix well and aspirate cells by gently pipetting.
f) After centrifugation, resuspend the pellet and add appropriate aliquots of the cell suspension to new culture vessels.
g) Incubate cultures at 37°C.

Subcultivation Ratio: A subcultivation ratio of 1:4 - 1:5 is recommended

Medium Renewal: Every 2 to 3 days

Notes

a) After the stabilization of the cell condition, there will be fewer dead cells post-passage, the cell growth rate will tend to stabilize, cell morphology will become uniform, and the cells will appear robust.

Sequence

H_ST6GALNAC1(Codon opt) Q9NSC7 2000-10-01 v1

MRSCLWRCRHLSQGVQWSLLLAVLVFFLFALPSFIKEPQTKPSRHQRTENIKERSLQSLAKPKSQAPTRARRTTIY
AEPVPENNALNTQTQPKAHTTGDRGKEANQAPPEEQDKVPHTAQRAAWKSPEKEKTMVNTLSPRGQDAGMAS
GRTEAQSWKSQDTKTTQGNGGQTRKLTASRTVSEKHQGKAATTAKTLIPKSQHRMLAPTGAVSTRTRQKGVTT
AVIPPKEKKPQATPPPAPFQSPTTQRNQRLKAANFKSEPRWDFEEKYSFEIGGLQTTCPDSVKIKASKSLWLQKLF
LPNLTLFLDSRHFNQSEWDRLEHFAPPFGFMELNYSLVQKVVTRFPPVPQQQLLLASLPAGSLRCITCAVVGNGGI
LNNSHMGQEIDSHDYVFRLSGALIKGYEQDVGTRTSFYGFTAFSLTQSLLILGNRGFKNVPLGKDVRYLHFLEGT
RDYEWLEALLMNQTVMSKNLFWFRHRPQEAFREALHMDRYLLLHPDFLRYMKNRFLRSKTLDGAHWRIYRPT
TGALLLLTALQLCDQVSAYGFITEGHERFSDHYYDTSWKRLIFYINHDFKLEREVWKRLHDEGIIRLYQRPGPGT
AKAKN

H_MUC1(CD227)(Codon opt) P15941-1 2010-05-18 v3

MTPGTQSPFFLLLLLTVLTVVTGSGHASSTPGGEKETSATQRSSVPSSTEKNAVSMTSSVLSSHSPGSGSSTTQGQ
DVTLAPATEPASGSAATWGQDVTSVPVTRPALGSTTPPAHDVTSAPDNKPAPGSTAPPAHGVTSAPDTRPAPGST
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RYVPPSSTDRSPYEKVSAGNGGSSLSYTNPAVAATSANL

Related Products

MUC1;Sialyl-Tn (STN) MUC1	
Cynomolgus_MUC1-C(Flag-p62-p58-heterodimer) CHO-K1 Cell Line	Flag-Cynomolgus_MUC1(CD227) CHO-K1 Cell Line
H_MUC1(CD227) CHO-K1 Cell Line	H_MUC1(CD227) HEK-293 Cell Line
H_MUC1-C(Flag-p62-p58-heterodimer) CHO-K1 Cell Line	

Anti-H_MUC1(CD227)hIgG1 Antibody(Clivatuzumab)	Anti-MUC1 hIgG1 Antibody(3D1)
Anti-MUC1(CD227) hIgG1 Reference Antibody(Gatbio)	Anti-TA-MUC1(CD227)-DXD (Dar8)[DS-3939]
Anti-STn-MMAE ADC(Dar4)[SGN-STNV]	
Cynomolgus MUC1 Protein; His Tag	

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