Product sheet - cell line

Designation	**NCH612**
Synonyms	n.a.
Catalog number - cryovial	300121
Catalog number - vital cells	330121

Please read first

Biosafety level	1
Citation	NCH612 (CLS catalog number 300121)

Origin and General Characteristics

Organism	Human
Ethnicity	Caucasian
Age	39
Gender	Male
Tissue	Brain
Disease	Anaplastic oligodendroglioma, WHO °III, IDH1 mutant (R132H)
Growth properties	Spheroid culture
Depositor	C. Herold-Mende
Cellosaurus accession ID	CVCL_X913
Wikidata	Q54907711
NCBI_TaxID	9606
References	References are available in the product page at www.cls.shop

Culture Conditions and Handling

Culture medium	GBM-MG, 0% FBS
Subculturing	Mechanical dissociation by pipetting (5-10 times) with an Eppendorf pipette and 1000 µl filter tips after centrifugation of the cells (5min, 300g, RT).
Split ratio	A ratio of 1:2 to 1:5 is recommended
Seeding density	1 x 10^ cells/ml
Fluid renewal	Fresh medium must be added every 2-3 days (2-5 ml depending on the size of the cell culture flask).
Freeze medium	CM-ACF (CLS catalog number 800650)
Freeze medium	Slow. After thawing allow the cells to recover from the freezing process for at least 48 hours.

Sterility	Plasmotest: negative; Mycoplasma specific PCR: negative

Special Features of the Cell Line

DNA profile (STR)	Amelogenin	X,X	D18S51	13
	CSF1PO	11,12	Penta E	11,14
	D13S317	10	Penta D	9,12
	D16S539	11,13	D8S1179	13
	D5S818	11,13	FGA	21
	D7S820	10,11	D1S1656	n.a.
	TH01	6,7	D6S1043	n.a.
	TPOX	8,12	D2S1338	n.a.
	vWA	17	D12S391	n.a.
	D3S1358	14,18	D19S433	n.a.
	D21S1	28,31		
HLA-typing	A*	n.a., n.a.	DQB1*	n.a., n.a.
	B*	n.a., n.a.	DPA1*	n.a., n.a.
	C*	n.a., n.a.	DPB1*	n.a., n.a.
	DRB1*	n.a., n.a.	E	n.a., n.a.
	DRB3*	n.a., n.a.	G	n.a., n.a.
	DRB4*	n.a., n.a.	F	n.a., n.a.
	DRB5*	n.a., n.a.	MR-1	n.a., n.a.
	DQA1*	n.a., n.a.		

Recommendations for handling of cells following delivery

Cryopreserved cells	The cells come deep-frozen shipped on dry ice. Please make sure that the vial is still frozen. If immediate culturing is not intended, the cryovial must be stored below -150°C after arrival. If immediate culturing is intended, please follow the below instructions: Quickly thaw by rapid agitation in a 37 °C water bath within 40-60 seconds. The water bath should have clean water containing an antimicrobial agent. As soon as the sample has thawed, remove the cryovial from the water bath. A small ice clump should still remain and the vial should still be cold. From now on, all operations should be carried out under aseptic conditions. Transfer the cryovial to a sterile flow cabinet and wipe with 70% alcohol. Carefully open the vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of culture medium (room temperature). Resuspend the cells carefully. Centrifuge at 300 x g for 3 min and discard the supernatant. The centrifugation step may be omitted, but in this case the remains of the freeze medium have to be removed 24 hours later. Resuspend the cells carefully in 10 ml fresh cell culture medium and transfer them into two T25 cell culture flasks. All further steps are described in the Subculture section.
Proliferating cultures	The cell culture flasks, 2xT25, come filled with cell culture medium. Collect the entire medium in 2 x 50 ml centrifuge tubes. Carefully add 5 ml of cell culture medium to each of the two T25 cell culture flasks. Control the cell morphology and confluency under the microscope. Incubate at 37 °C for a minimum of 24 hours. Spin down the collected medium at 300 x g for 3 minutes to collect the cells which may have detached during transit. If a cell pellet is visible, resuspend the cells in 5 ml of cell culture medium and transfer to 1 x T25 cell culture. Incubate at 37 °C for a minimum of 24 hours.

Legal & Documentation

Safety precautions	If the cryovial is planned to be stored in liquid nitrogen and to be thawed in the future, special safety precautions should be followed. Protective gloves and clothing should be used and a facemask or safety goggles must be worn when transferring frozen samples into or removing from the liquid nitrogen tank. The removal of a cryovial from liquid nitrogen may result in the explosion of the frozen vial creating flying fragments.
Warranty	CLS warrants for a high cell viability and culture performance only if the products are stored and cultured according to the information described in this product sheet.
Certificate of Analysis	The certificate of analysis can be requested by email at info@cls.shop for each batch. Please indicate the lot number of your product in the email.
Disclaimer	This product is intended for laboratory research use only. It is strictly prohibited in any case to use the cells, their progeny, unmodified derivatives and modifications in human or animal subjects for therapeutic, diagnostic or prophylactic purposes. All regulations as described in the Material Transfer Agreement or Supply Agreement concluded with the order apply.