



CSI238Ra01

Primary Rat Trigeminal ganglion neuron cells (TGN)

Organism Species: *Rattus norvegicus* (Rat)

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

4th Edition (Revised in Jul, 2026)

[DESCRIPTION]

Cell Type: Neuron cell

Synonyms: TGN、TGNC

Strain: Sprague Dawley Rat

Age: 1-3 days

Tissue Source: Trigeminal ganglion

Disease: Normal

Size: $>5 \times 10^5$ cells/vial

Growth properties: Adherent

Morphology: Neuronal

[PROPERTIES]

Cell activity: $>85\%$ (Viability by Trypan Blue Exclusion).

Formulation: Frozen 1 mL or T25 flask.

Biosafety: Negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast and fungi.

[CONTENTS]

Form & Buffer: Supplied as solution form in frozen stock solution (Protein-free, Chemical Defined Cell Cryopreservation Medium). ***TGN are cryopreserved at P0 and delivered frozen.***

[USAGE]

Upon receiving the cells in a T-25 flask at room temperature, immediately transfer the cells to 37°C, 5% incubator; the cells in vials, directly and immediately transfer the cells from dry ice to liquid nitrogen.

Culture conditions:

Coating conditions: Poly-D-lysine (0.1mg/mL, 2ml/T25 Flask)

Special culture medium for neuronal cell:

Neurobasal-A Medium+B-27 Supplement (50X)+1%Penicillin-Streptomycin Solution

Temperature: 37°C

Condition: 95% air, 5% carbon dioxide

Medium Renewal: Every 2 to 3 days

Dissociation Solution: 0.25% Trypsin

Cell recovery:

After receiving the cells, shake at 37°C in a water bath until completely dissolved, transfer to a 15 ml centrifuge tube, add 3-5 times complete culture solution, 1000 rpm for 5 min, discard the supernatant, and place in a T25 flask for culture.

[Shipping]

Dry ice.

[STORAGE]

Upon receiving, directly and immediately transfer the cells from dry ice to liquid nitrogen and keep the cells in liquid nitrogen until they are needed for experiments.

[IMPORTANTNOTE]

1. The culture cycle of Primary Rat Trigeminal ganglion neuron cells (TGN) is limited *in vitro*. It is recommended to use the specialized growth medium provided by Cloud-Clone Corp. and follow the correct operational procedures to ensure optimal culture conditions for these cells.
2. It is recommended that culture bottles be coated with Poly-D-lysine, and the concentration of Poly-D-lysine is 0.1mg/mL, using 2 ml per T25 flask.
3. The cell is for research use only, and we will not be responsible for any issue if the cell was used in clinical diagnostic or any other procedures.

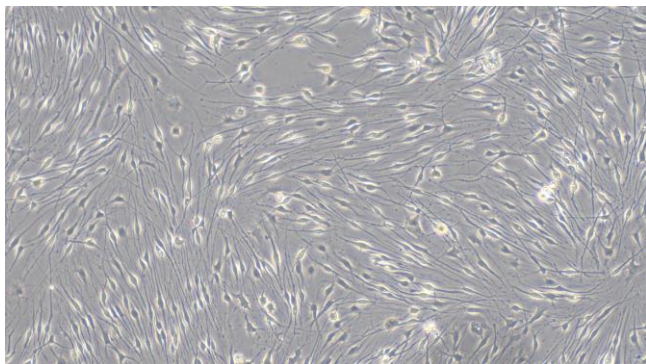
[Figure]

Figure 1

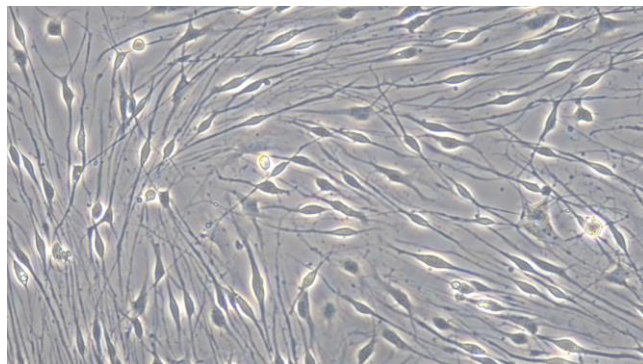


Figure 2

Figure 1 Morphology of Rat Trigeminal ganglion neuron cells (Optical microscope,×100)

Figure 2 Morphology of Rat Trigeminal ganglion neuron cells (Optical microscope,×200)

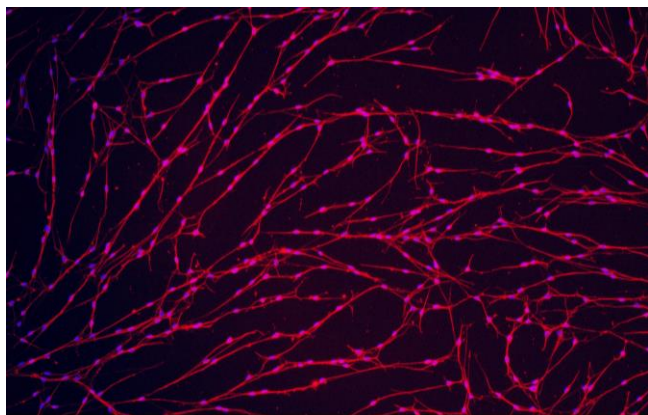


Figure 3

Figure 3 Immunofluorescence identification of β -TubulinIII specific antibody

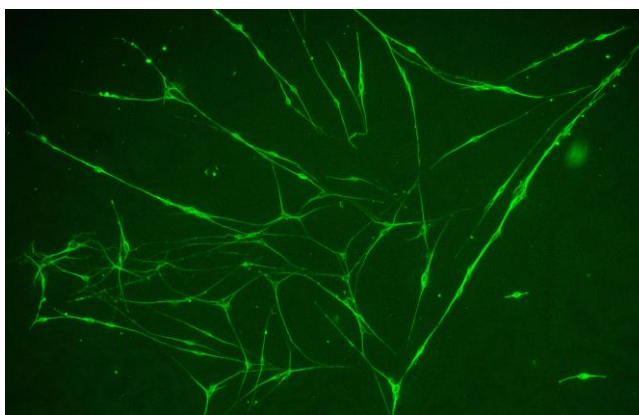


Figure 4

Figure 4 Immunofluorescence identification of NeuN specific antibody