PC-12

500311

GENERAL INFORMATION

Description

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Tissue	□□□
Disease	□□□□□□
Metastatic site	□□

Applications

□□□□□□□□□NGF □□□

Synonyms

- PC 12
- PC12

CLASSIFICATION

Organism	Rat
Sex	Male
Growth properties	Adherent and suspension
GMO status	Non-GMO

GMO status details

No genetic modification; wildtype rat pheochromocytoma cell line

Biosafety level	1

CHARACTERISTICS

Morphology	□□□
Cell type	□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Tumourigenic	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Karyotype

40 □□□□□□□□□ 38 □□□□□□□□□□□□ XY □□□

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BIC: SOLADES1HDB

IDENTIFIERS

Citation

PC-12□Cytion □□ 500311□

NCBI TaxID	10116
Cellosaurus	CVCL_S979

EXPRESSION AND SUSCEPTIBILITY

Receptors expressed

□□□□□□□NGF□

Products

□□□□□□□□□

HANDLING AND CULTURE

Culture medium

RPMI 1640□□ 2.0 mM □□□□□□□□ 2.0 g/L $NaHCO_3$□Cytion □□□□ 820700a□

Incubation atmosphere	37°C□5% CO_2□□□□□□□

Supplements

□□□□□□□ 10% □□□□□□FBS□

Dissociation reagent	TrypLE Express□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
Flask coating	□□□□

Subculturing

□□ 22 □□□□□□□□□□□□□□□□□ □□PBS□□□□□□□□T25□□□□□□□3-5□□PBS□T75□□□□□□□5-10□□□□ □□ TrypleExpress□T25 □□□□□ 1-2 □□□T75 □□□□□ 2.5 □□□□□□□□□□□□□□□□□□□ 37 □□□□□□ 10 □□□ □□

Seeding density	1×10^4 □□□/cm²
Fluid renewal	□□ 2 □ 3 □
Post-thaw recovery	□□□□□□□□ 5×10^4 □□□/cm² □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ 48 □□□

Thawing and culturing

Confirm that the vial remains deeply frozen upon delivery, as cells are shipped on dry ice to maintain optimal temperatures during transit.
Upon receipt, either store the cryovial immediately at temperatures below -150°C to ensure the preservation of cellular integrity, or proceed to step 3 if immediate culturing is required.
For immediate culturing, swiftly thaw the vial by immersing it in a 37°C water bath with clean water and an antimicrobial agent, agitating gently for 40-60 seconds until a small ice clump remains.
Perform all subsequent steps under sterile conditions in a flow hood, disinfecting the cryovial with 70% ethanol before opening.
Carefully open the disinfected vial and transfer the cell suspension into a 15 ml centrifuge tube containing 8 ml of room-temperature culture medium, mixing gently.
Centrifuge the mixture at 300 x g for 3 minutes to separate the cells and carefully discard the supernatant containing residual freezing medium.
Gently resuspend the cell pellet in 10 ml of fresh culture medium. For adherent cells, divide the suspension between two T25 culture flasks; for suspension cultures, transfer all the medium into one T25 flask to promote effective cell interaction and growth.
Adhere to established subculture protocols for continued growth and maintenance of the cell line, ensuring reliable experimental outcomes.

QUALITY CONTROL AND CRYOPRESERVATION

Sterility

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

Storage conditions

□□□□□□□□□□□□□□□□□ −150 □ −196 °C □□□□□□□□□□□□□□□□□□□□□□□□□ −80 °C □□□□□□□□□□□□□

Shipping conditions

□□□ −78 °C□□□□□□□□□□□□□□□□□□□□□□□□□
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DONOR

Donor age	□□□
Ethnicity	□□

LEGAL AND SAFETY

Safety precautions

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Disclaimer

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Warranty

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Material Transfer Agreement required	Yes

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